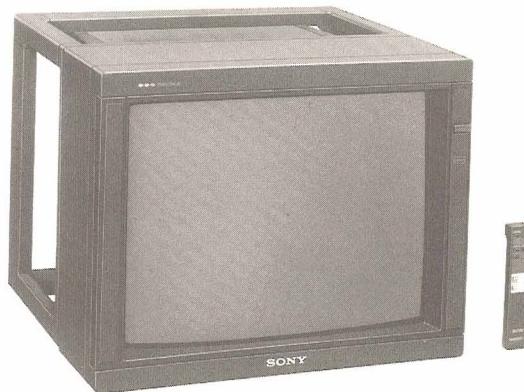


# PVM-2130QM

## RM-668

## SERVICE MANUAL



*AEP Model*

*Chassis No. SCC-A99A-A*

*Australian Model*

*Chassis No. SCC-B22A-A*

*West Germany Model*

*Chassis No. SCC-B19A-A*

### SPECIFICATIONS

**Note:** The service manuals for RM-668 have been issued separately.

Color system	PAL, SECAM, NTSC and NTSC <sub>4.43</sub> systems, switched automatically	LINE A/B outputs (loop-through outputs)
Picture tube	Trinitron tube Approx. 54.5 cm (21 inches) (50.6 cm picture measured diagonally) 100-degree deflection, AG pitch 0.55 mm	VIDEO: BNC connector AUDIO: Phono jack
Resolution	Video input: 420 TV lines RGB inputs: 640 × 200 dots (2000 characters)	Monitor outputs VIDEO: BNC connector Composite video, 1 Vp-p
Color temperature	9300°K	AUDIO: Phono jack Less than 1 kilohm
Frequency response	10 MHz (-3 dB, RGB) 5 MHz (-3 dB, composite video)	Digital RGB inputs RGB: D-sub 9-pin connector (See "Signal assignment".) AUDIO: Phono jack -5 dBs, more than 47 kilohms
Horizontal linearity	Less than ±7%	AV connector 21-pin connector (See "Signal assignment".)
Vertical linearity	Less than ±8%	Speaker terminals 8 ohms
Line pull range	Horizontal: + 500 Hz Vertical: -8 Hz	Control S input/output Minijack, 5 Vp-p
Overscan of the picture	Less than + 7%	Power output 7 W + 7 W at 8 ohms
Convergence	Central area: within 1.0 mm Periphery: within 1.8 mm	Power requirements 220 - 240 V AC, 50/60 Hz
LINE A/B, VTR inputs	VIDEO IN: LINE A/B: BNC connector Composite video, 1 Vp-p ±6 dB, sync negative, 75-ohm termination switchable VTR: 8-pin connector Composite video, 1 Vp-p ±6 dB, sync negative, 75-ohm terminated	Power consumption 140 W
AUDIO IN:	LINE A/B: Phono jack -5 dBs, more than 47 kilohms VTR: 8-pin connector, -5 dBs, more than 47 kilohms	Dimensions Approx. 516 × 409 × 482 mm (w/h/d) incl. projecting parts and controls
		Weight Approx. 30.6 kg
		Supplied accessory Remote commander RM-668, with 2 R6 batteries..... 1
		Optional accessories TV stand SU-538, SU540 Speaker system SS-X6A, APM-X5A

— Continued on page 2 —

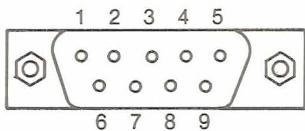
**TRINITRON COLOR VIDEO MONITOR**  
**SONY®**



**MON**

## SIGNAL ASSIGNMENT

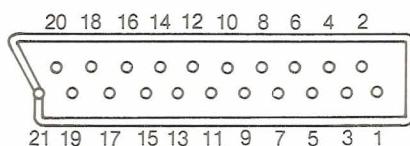
**DIGITAL RGB connector**  
(D-sub 9-pin)



Digital signal (TTL level)

Pin No.	Signal assignment
1	Ground
2	Ground
3	Red input
4	Green input
5	Blue input
6	Intensity input
7	No connection
8	H. sync input (positive/negative)
9	V. sync input (positive/negative)

**AV connector (21-pin)**



Pin No.	Signal	Signal level
1	Audio output B (right)	Standard level: 0.5 Vrms Output impedance: Less than 1 k ohm*
2	Audio input B (right)	Standard level: 0.5 Vrms Input impedance: More than 10 k ohms*
3	Audio output A (left)	Standard level: 0.5 Vrms Output impedance: Less than 1 k ohm*
4	Ground (audio)	
5	Ground (blue)	
6	Audio input A (left)	Standard level: 0.5 Vrms Input impedance: More than 10 k ohms*
7	Blue input	0.7 V ±3 dB, 75 ohms, positive
8	Function select (AV control)	High state (9.5 – 12 V): Peri mode Low state (0 – 2 V): TV mode Input impedance: More than 10 k ohms Input capacitance: Less than 2 nF

Pin No.	Signal	Signal level
9	Ground (green)	
10	Open	
11	Green input	(Same as Pin 7)
12	Open	
13	Ground (red)	
14	Ground (blanking)	
15	Red input	(Same as Pin 7)
16	Blanking input	High state (1 – 3 V) Low state (0 – 0.4 V) Input impedance: 75 ohms
17	Ground (video output)	
18	Ground (video input)	
19	Video output	1 V ±3 dB, 75 ohms, positive Sync: 0.3 V (±3 dB)
20	Video input	1 V ±3 dB, 75 ohms, positive Sync: 0.3 V (±3 dB)
21	Common ground (plug, shield)	

\* at 20 Hz – 20 kHz

Design and specifications subject to change without notice.

## TROUBLESHOOTING

If these symptoms occur when you begin operation, follow the suggestions below.

SYMPTOMS	CORRECTIONS
No controllable keys although the POWER switch is turned on.	• Press the CONTROL key.
No indication appears although the CONTROL key is pressed.	• Set the MANUAL CONTROL switch on the rear panel to ON.
Remote control is not possible.	• Set the REMOTE CONTROL switch on the rear panel to ON.

If the problem still cannot be solved, contract your authorized Sony dealer.

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SAFETY-RELATED COMPONENT WARNING !!

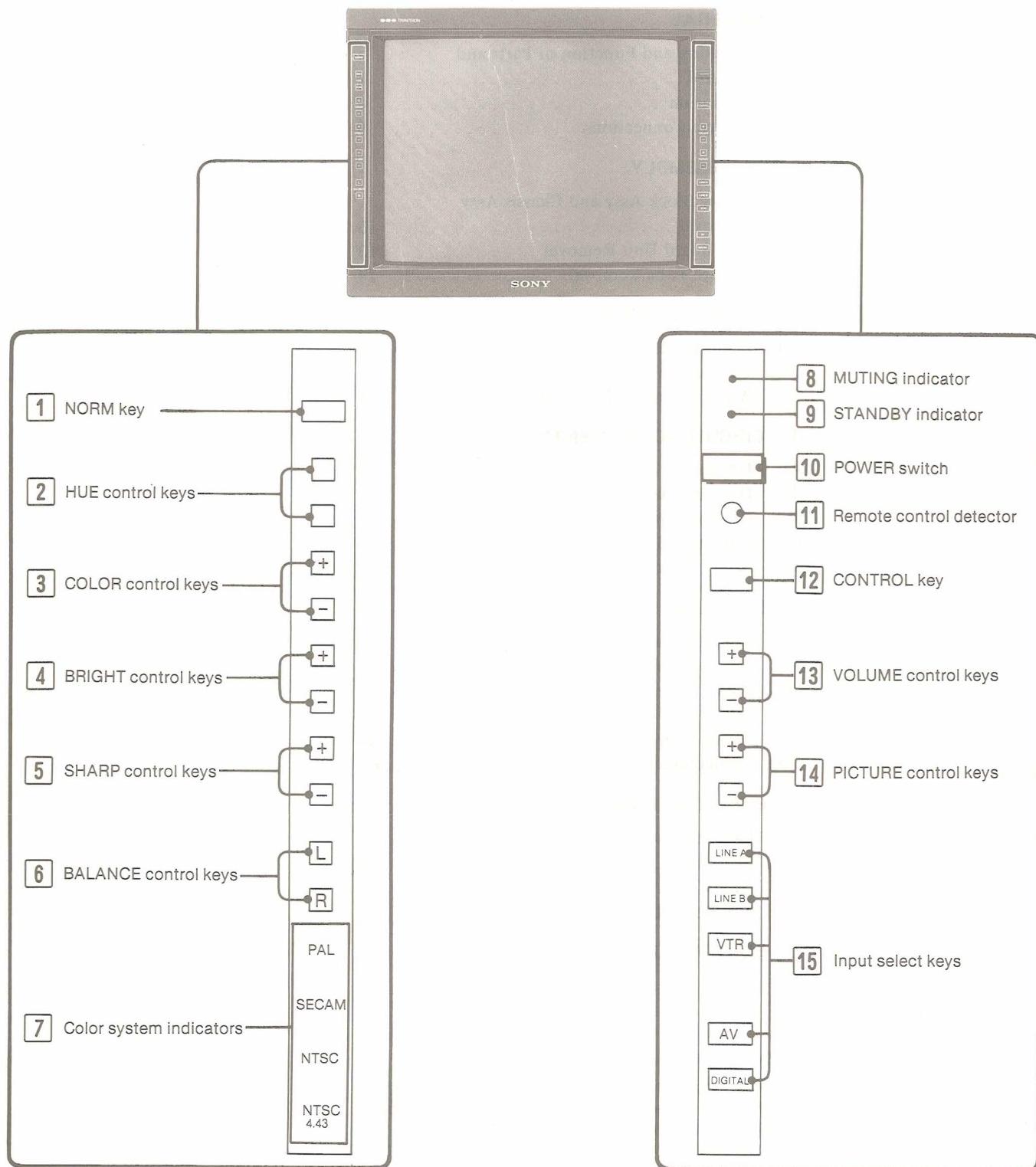
COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

## SECTION 1

### GENERAL

#### 1-1. LOCATION AND FUNCTION OF PARTS AND CONTROL

##### FRONT PANEL



• Press CONTROL key after power is turned on to illuminate the control keys or indicators.

The following control keys are effective only when MANUAL CONTROL switch on the rear panel is set to ON.

**[1] NORM (normal) key**

Press this key to return to the standard setting.  
 • This key is effective only for the control keys on the left.

**[2] HUE control keys**

Press the GRN (green) key to make the skin tones greenish or the PUR (purple) key to make it purplish.  
 • These control keys are effective for the NTSC and NTSC<sub>4,43</sub> color systems only.

**[3] COLOR control keys**

Press the + key to make the color intensity vivid or the – key to make it pale.

**[4] BRIGHT (brightness) control keys**

Press the + key to make the picture brighter or the – key to make it darker.

**[5] SHARP (sharpness) control keys**

Press the + key to obtain a sharp picture or the – key to obtain a soft picture.

**[6] BALANCE control keys**

Press the L key to increase the sound volume of the left speaker or the R key to increase the sound volume of the right speaker.

**[7] Color system indicators**

PAL, SECAM, NTSC, NTSC<sub>4,43</sub>

The color system of the input signal is automatically selected and the corresponding indicator illuminates. When the input signal is monochrome, no color system indicator illuminates.

**[8] MUTING indicator**

Illuminates while the sound is muted.  
 • Muting is controlled only by the Remote Commander.

**[9] STANDBY indicator**

Illuminates when the power is turned off by the Remote Commander.

**[10] POWER switch**

Press this switch to turn the monitor on.  
 Press this switch again to turn it off.  
 • When the monitor is turned on, the settings of the monitor are the same as when it was last turned off.  
 • For a few seconds after turning on the monitor the color of picture may vary because the white balance is adjusted at this time. This is not a problem.

**[11] Remote control detector**

The beam from the Remote Commander is received here.

**[12] CONTROL key**

Press this key to illuminate the keys and indicators on the front panel.  
 Press this key again to extinguish them.

**[13] VOLUME control keys**

Press the + key to raise the volume or the – key to lower it.

**[14] PICTURE control keys**

Press the + key to make the contrast, color intensity and brightness stronger or the – key to make them weaker.

**[15] Input select keys**

**LINE A, LINE B, VTR, AV, DIGITAL**

Select the input source connected to the LINE A, LINE B, VTR, AV or DIGITAL RGB connector.

When a key is pressed:

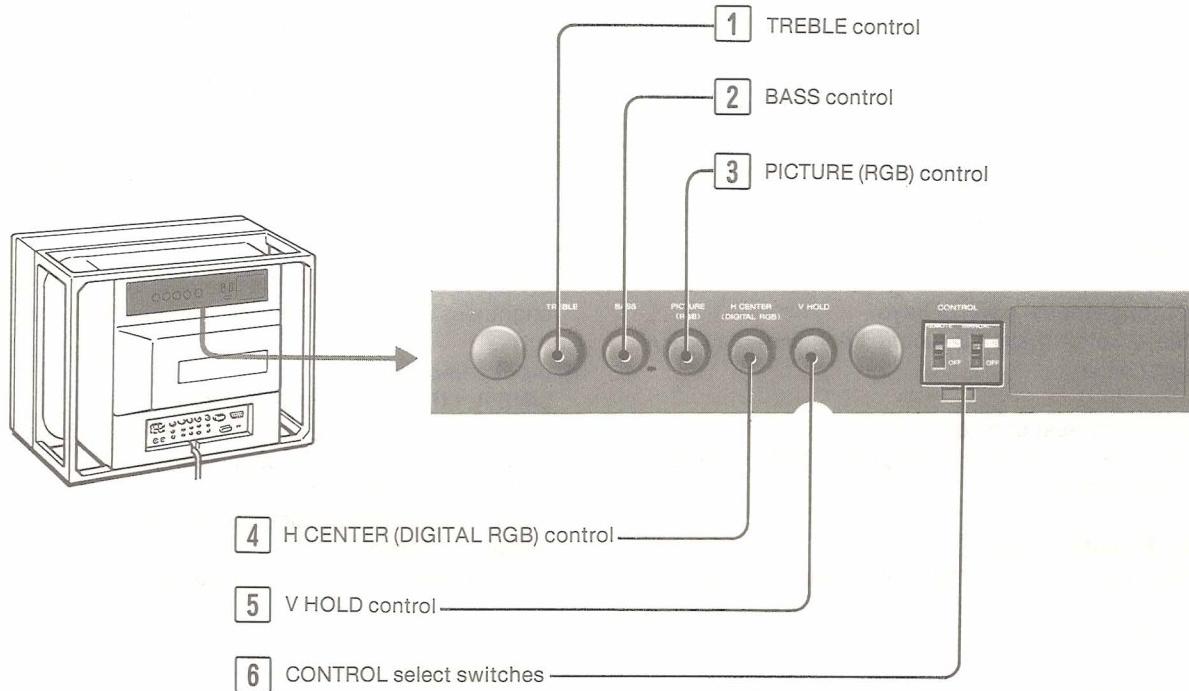
- it blinks if the other indicators and keys on the front panel illuminate.
- it illuminates if they are extinguished.

**Key illumination**

For the keys [1] through [7], [13] and [14]:

- While each key is pressed, it blinks, indicating that adjustment is going on.
- During adjustment, if the adjustment value reaches the limit, the blinking speed becomes slower.

REAR PANEL



**[1] TREBLE control**

Turn clockwise for more treble (high tone), or counterclockwise for less.

**[2] BASS control**

Turn clockwise for more bass (low tone), or counterclockwise for less.

**[3] PICTURE (RGB) control**

Adjust the contrast of the RGB signals connected to the AV connector or the DIGITAL RGB connector.

**[4] H CENTER (DIGITAL RGB) (horizontal centering) control**

When the picture of DIGITAL RGB input is decentered horizontally, correct it with this control.

**[5] V HOLD (vertical hold) control**

When the picture rolls vertically, correct it with this control.

**[6] CONTROL select switches**

Normally set to ON.

**REMOTE CONTROL switch**

Set this switch to ON to control the monitor with a Remote Commander.

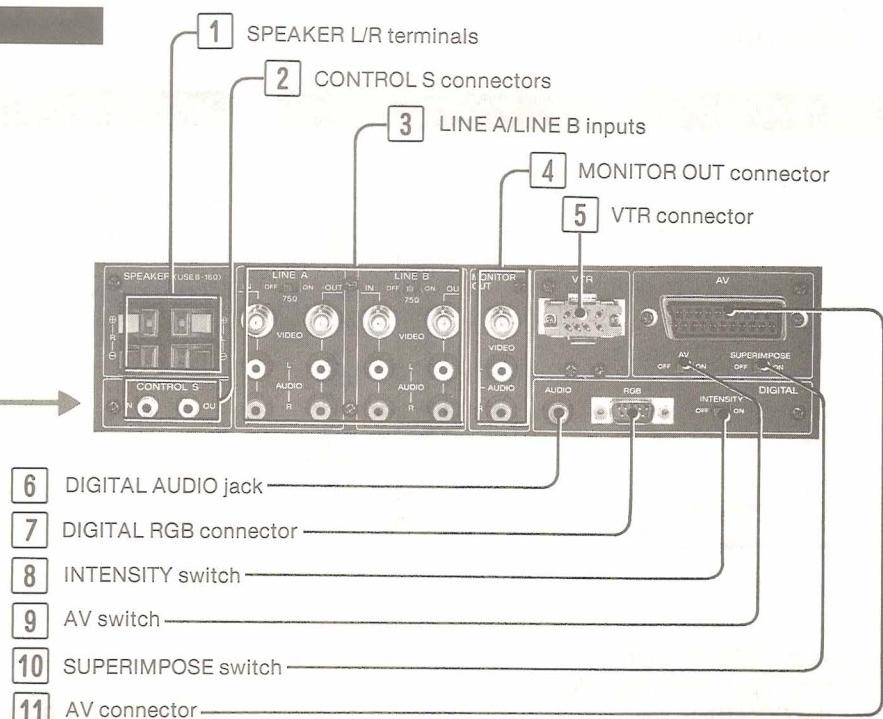
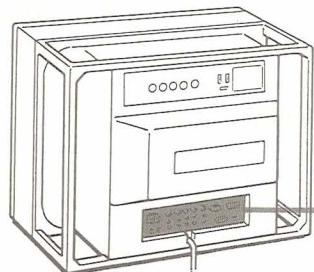
If this switch is set to OFF, the remote control is not possible.

**MANUAL CONTROL switch**

Set this switch to ON to control the monitor manually. To make the manual control of the control keys or switches on the front panel impossible, extinguish the indicators by pressing the CONTROL key on the front panel and set this switch to OFF.

(However remote control is possible if the REMOTE CONTROL switch is set to ON.)

## CONNECTORS



### **[1] SPEAKER L/R terminals**

Connect to speakers with 8 to 16 ohm impedance.

### **[2] CONTROL S IN/OUT connectors**

Connect to the CONTROL S connectors of a VTR or another monitor.

It is then possible to control the whole system with a single Remote Commander.

### **[3] LINE A/LINE B inputs**

#### **VIDEO IN connector (BNC type)**

#### **AUDIO L/R IN jacks (phono jack)**

Connect to the video and audio outputs of a VTR or a camera.

#### **VIDEO OUT connector (BNC type)**

#### **AUDIO L/R OUT jacks (phono jack)**

Loop-through outputs of the IN connector and jacks. Connect to the video and audio inputs of another monitor.

#### **75-ohm termination switch**

When only the VIDEO IN connector is used (nothing is connected to the VIDEO OUT connector), set this switch to ON.

When both connectors are used together for a loop-through connection, set this switch to OFF.

### **[4] MONITOR OUT connectors**

#### **VIDEO connector (BNC type)**

#### **AUDIO L/R jacks (phono jacks)**

The video and audio signals supplied from the LINE A, LINE B, VTR or AV input selected by the front panel input select keys are output from these connectors.

Connect to the video and audio inputs of another monitor, VTR, etc.

### **[5] VTR connector (8-pin)**

Connect to a VTR with an 8-pin TV connector.

### **[6] DIGITAL AUDIO jack (phono jack)**

Connect to the audio output of an audio source to listen to the sound from the connected audio source while viewing the picture from the DIGITAL RGB connector.

### **[7] DIGITAL RGB connector (9-pin, D-sub)**

Connect to the digital RGB output of a microcomputer.

### **[8] INTENSITY switch**

Normally set to OFF. When a microcomputer provided with intensity output is connected, set to ON for 16-color display.

### **[9] AV switch**

Set to ON so that the monitor is automatically switched to the AV input when a signal is input from the AV connector, taking priority over the LINE A, LINE B or VTR input previously selected by the input select keys on the front panel. Set to OFF to select the AV input manually by pressing the AV input select key.

### **[10] SUPERIMPOSE switch**

Normally set to ON.

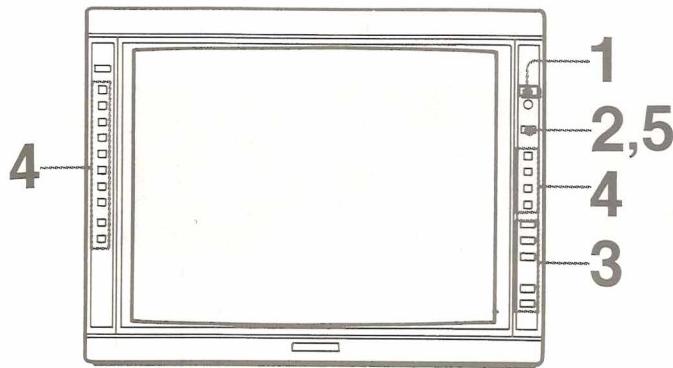
Set to OFF to display the analog RGB signal from the microcomputer connected to the AV connector.

### **[11] AV connector (21-pin)**

Connect to the 21-pin multiconnector of an 8 mm video cassette recorder or the analog RGB multioutput connector of a microcomputer.

## 1-2. OPERATION

### DISPLAYING THE PICTURE



- 1 Depress the POWER switch.  
One of the input select keys illuminates.
- 2 Press the CONTROL key.  
The selected input select key blinks and all control keys on the front illuminate.  
(If the control keys do not appear, set the MANUAL CONTROL switch on the rear to ON.)
- 3 Press the desired input select key.  
The pressed key blinks and the picture from the selected input is displayed on the screen and the sound is heard through the speakers.  
(For selecting the AV or DIGITAL input, see "Notes on input selection".)
- 4 Adjust the picture and sound.
- 5 Press the CONTROL key to extinguish the controls keys so that only the selected input select key illuminates.

### SUPERIMPOSING

To superimpose the data from the microcomputer connected to the AV connector over the picture, proceed as follows.  
(The data should be processed for superimposition on the microcomputer.)

- 1 Set the SUPERIMPOSE switch to ON.
- 2 Press the LINE A, LINE B or VTR input select key to display the picture on which the data is to be superimposed on the monitor screen.
- 3 Press the AV input select key.  
The data is superimposed over the picture.
- 4 Adjust the contrast of the superimposed data with the PICTURE (RGB) control.

### NOTES ON INPUT SELECTION

#### AV input and SUPERIMPOSE switch

Set the SUPERIMPOSE switch on the rear as follows, according to the signal supplied to the AV connector.

SUPERIMPOSE switch	Signal to be displayed
ON	<ul style="list-style-type: none"> <li>• To display the composite video signal from an 8 mm video cassette recorder, etc.</li> <li>• To perform superimposition. (See "SUPERIMPOSING".)</li> </ul>
OFF	<ul style="list-style-type: none"> <li>• To display the analog RGB signal from a microcomputer, etc. In this case, the sync signal should be supplied to pin 20 of the AV connector.</li> </ul>

- When the AV input select key is pressed with the SUPERIMPOSE switch ON, the previously selected LINE A, LINE B or VTR input select key blinks together with the AV key.
- When it is pressed with the SUPERIMPOSE switch OFF, only the AV key blinks.

#### AV input and AV switch

When the AV switch on the rear is set to ON, the monitor is automatically switched from the LINE A, LINE B or VTR input to the AV input if a signal is input to the AV connector.  
Set the AV switch to OFF to select the AV input manually by pressing the AV input select key.

#### DIGITAL input

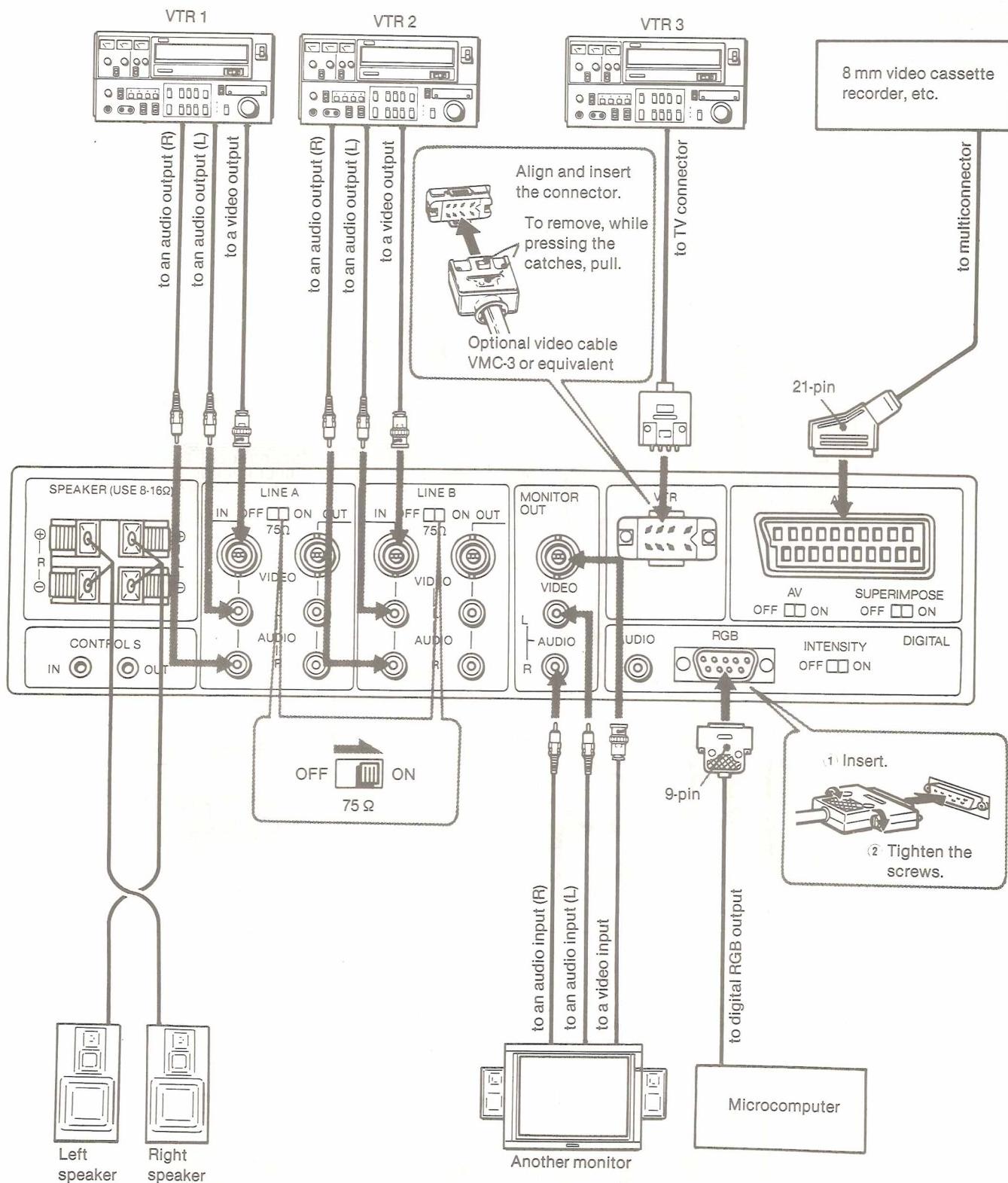
- To display the digital RGB signal from a microcomputer provided with intensity output in 16 colors, set the INTENSITY switch on the rear to ON.
- If necessary, center the picture from the DIGITAL RGB connector with the H CENTER control on the rear panel.

#### Note

The COLOR, HUE and SHARP control keys do not function when the DIGITAL input is selected or the AV input is selected with the SUPERIMPOSE switch OFF.

### 1-3. SYSTEM CONNECTIONS

#### CONNECTION DIAGRAM



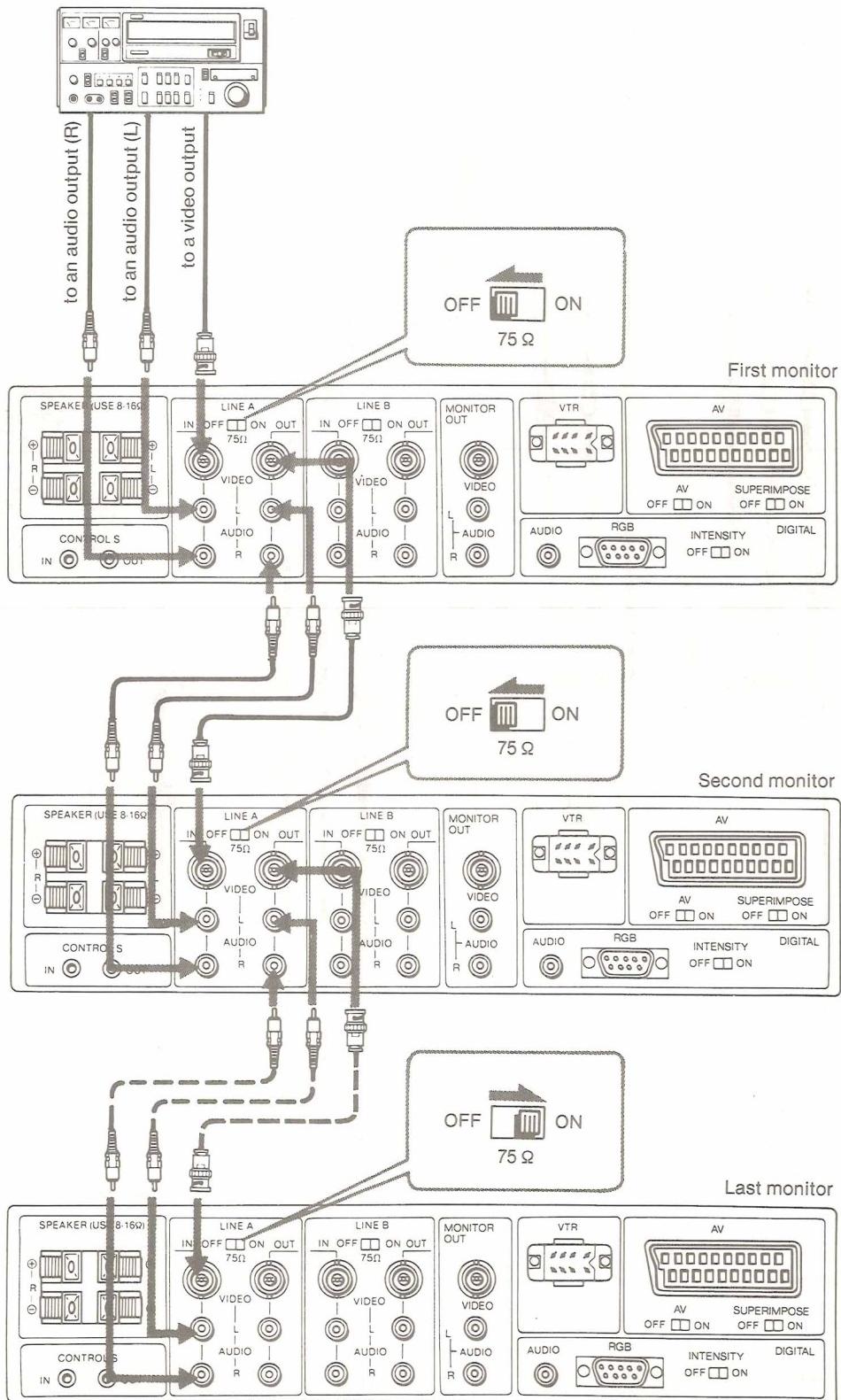
#### Note

- When a microcomputer has an analog RGB output connector, connect it to the AV connector.

- When a microcomputer has only a composite video output connector, connect it to the LINE A or LINE B VIDEO IN connector.

## CONNECTING SEVERAL MONITORS

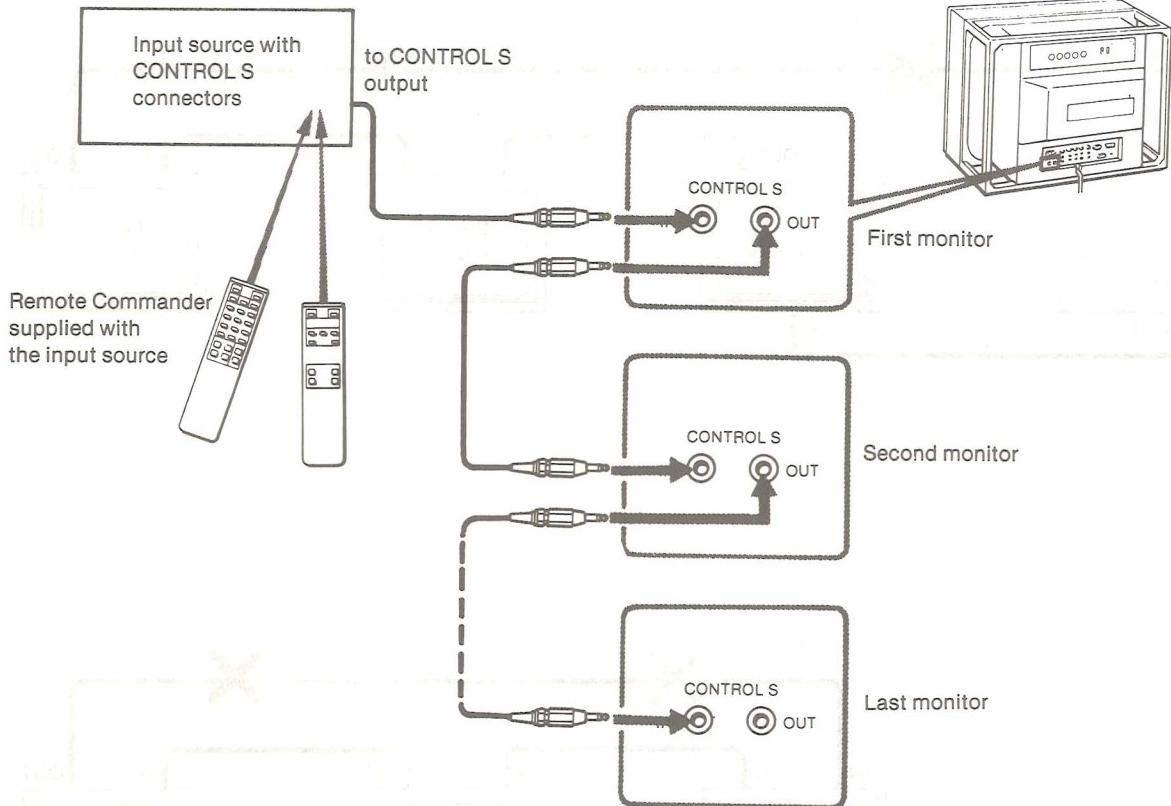
A loop-through connection is convenient for monitoring the same signal on other monitors. Up to 10 monitors can be connected. It is recommended to use a signal distributor when several monitors are connected.



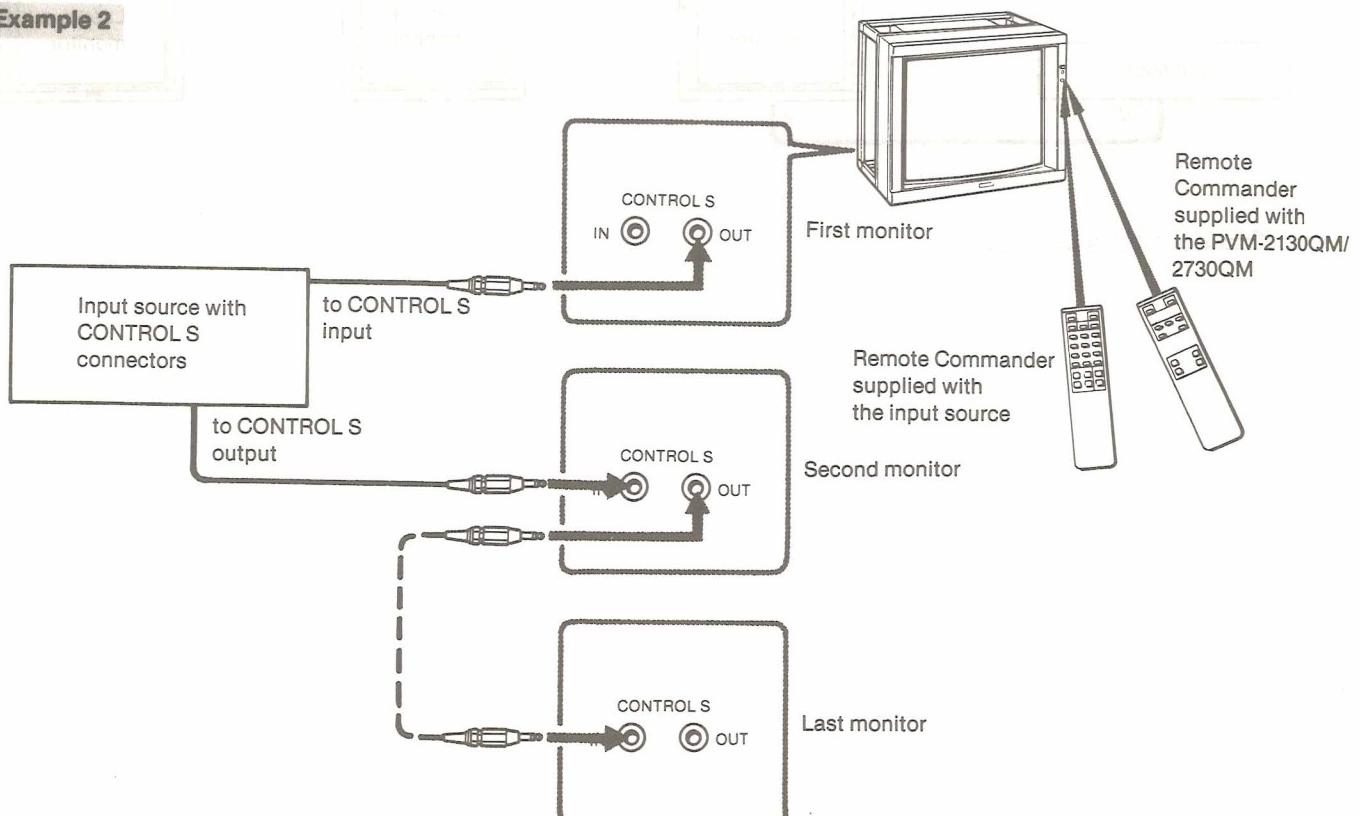
## CONTROL S CONNECTION

The following connections allow remote control of several monitors and a VTR through a single monitor.

### Example 1



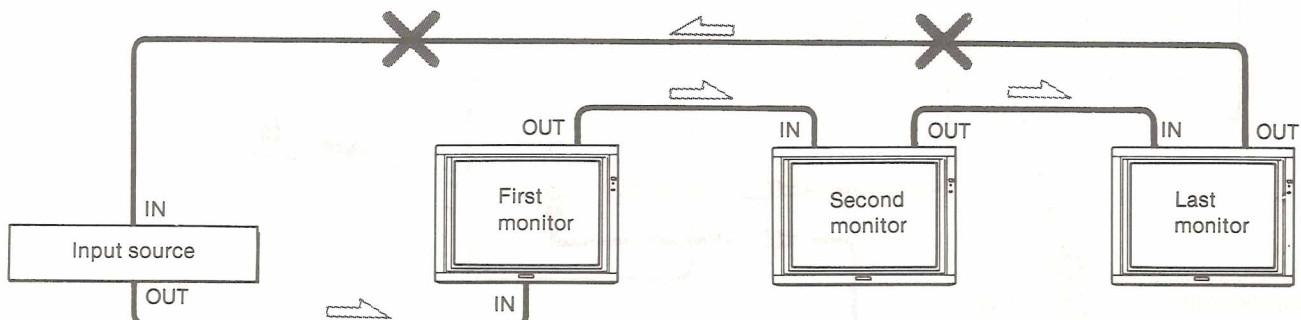
### Example 2



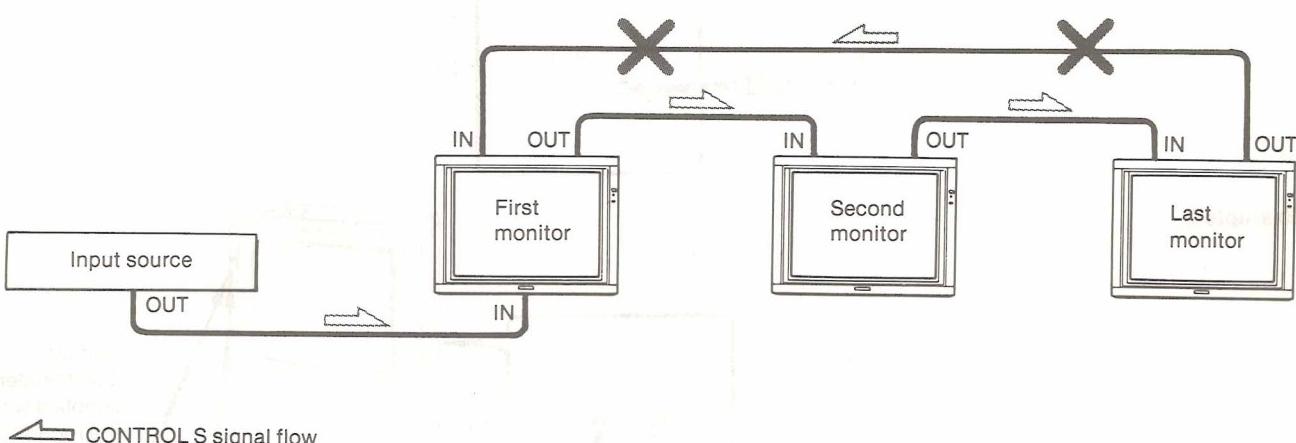
**Note**

Do not use the following loop connections.

**Example 1**

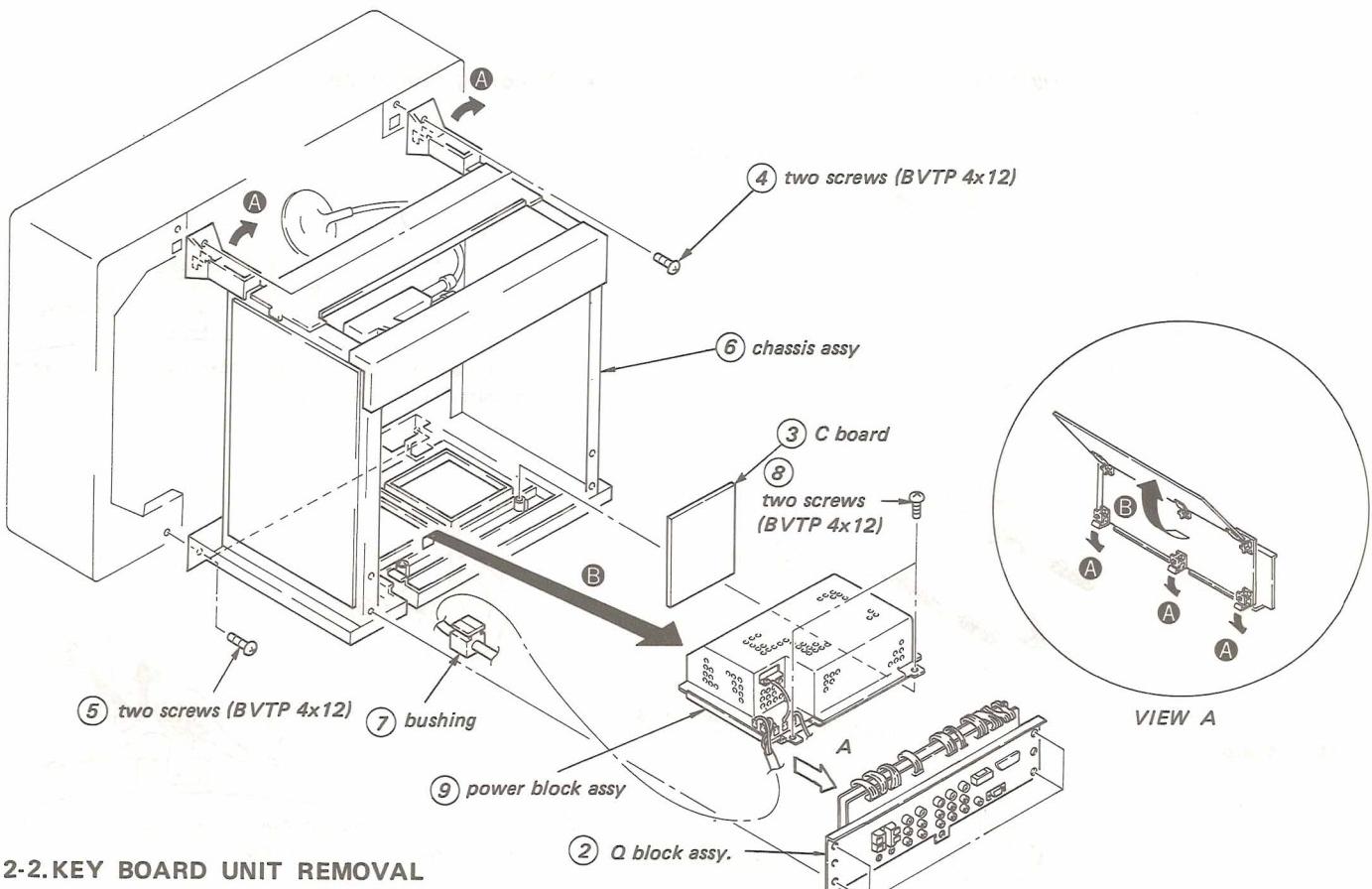


**Example 2**

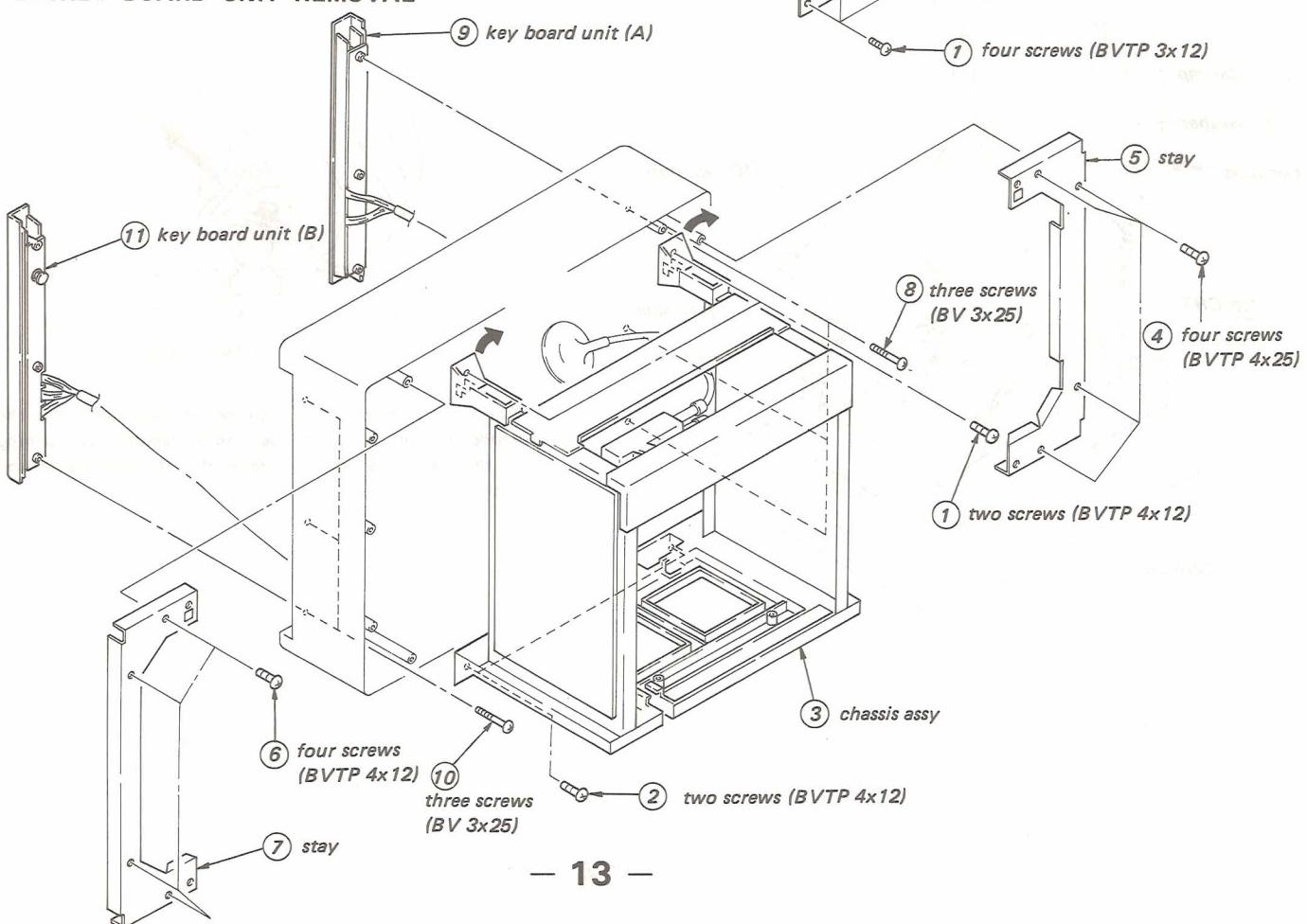


## SECTION 2 DISASSEMBLY

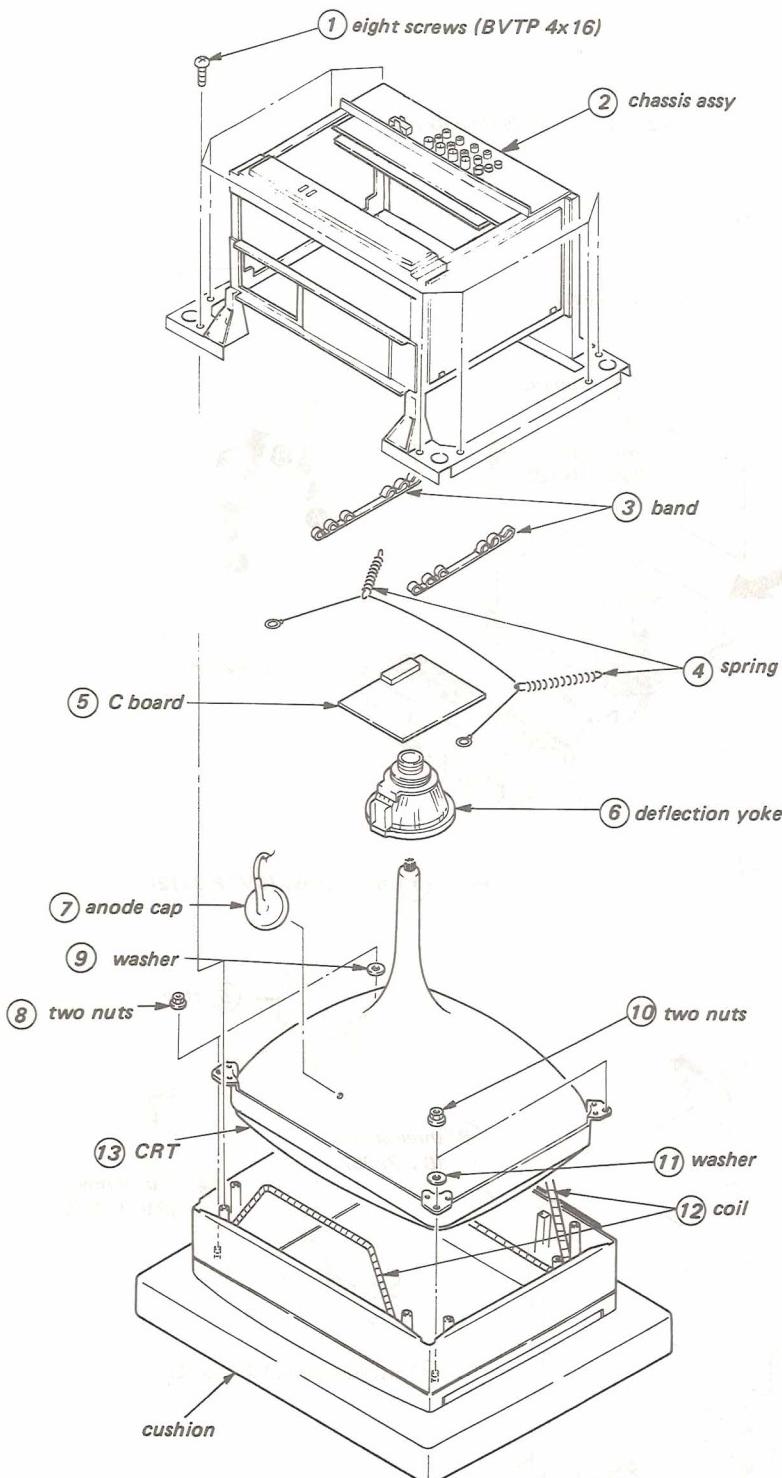
### 2-1. POWER BLOCK ASSY AND CHASSIS ASSY REMOVAL



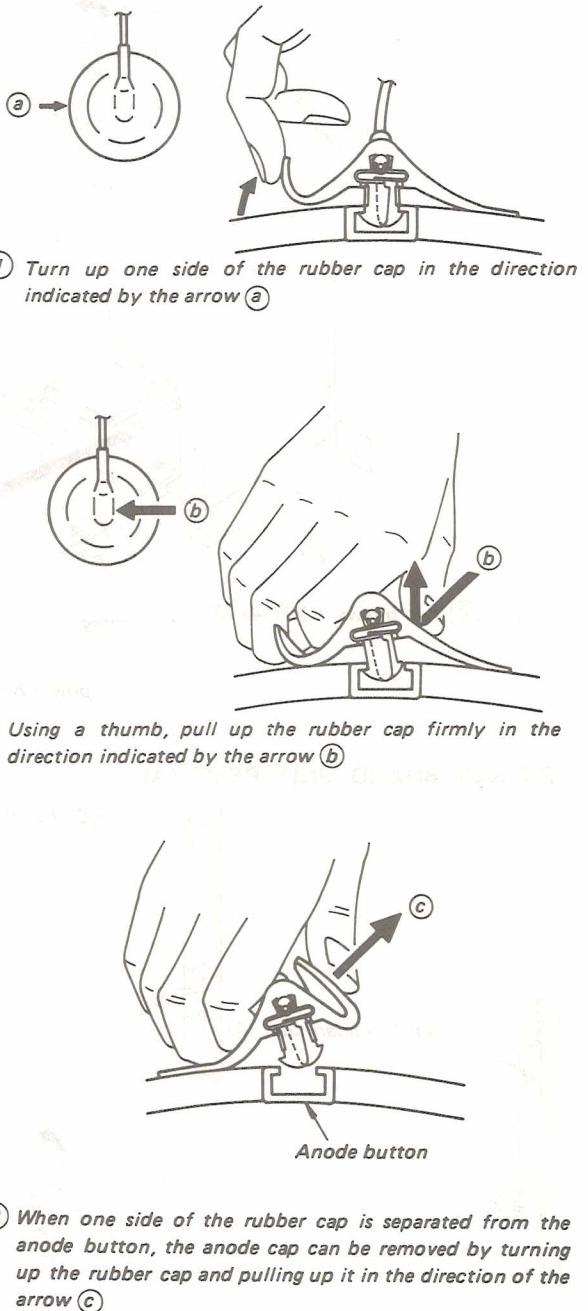
### 2-2. KEY BOARD UNIT REMOVAL



### 2-3. PICTURE TUBE REMOVAL



#### • Removing Procedures



## SECTION 3

### SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

Perform the adjustments in order as follows:

- Beam Landing
- Convergence
- White Balance

**Note:** Test Equipment Required

- Color-bar/Pattern Generator
- Degausser

#### 3-1. BEAM LANDING

Preparation:

- Input the RASTER pattern.
  - Before starting, degauss the entire screen.
- Turn on set power supply and input a RASTER signal.
  - Evenly degauss the entire screen.
  - Loosen the deflection yoke mounting screw, and set the purity control to the center as shown in Figure 3-1.
  - Input a red signal.
  - Move the deflection yoke back, and adjust the purity control so that RED is in the center and GREEN and BLUE are at the sides, evenly. (Figure 3-2.)
  - Move the deflection yoke forward so that the entire screen is red.
  - If the deflection yoke is pushed all the way to the CRT then moved slightly back, landing adjustment is easier.
  - Substitute GREEN, then BLUE for RED in step 4 and check landing.
  - Rotate RED, GREEN and BLUE once each and check landing.
  - When landing is not right, adjust the purity control and use magnets as shown in Figure 3-3, then repeat steps 7 and 8.
  - When a magnet is used, be sure to perform step 2, and tighten deflection yoke mounting screw loosely.

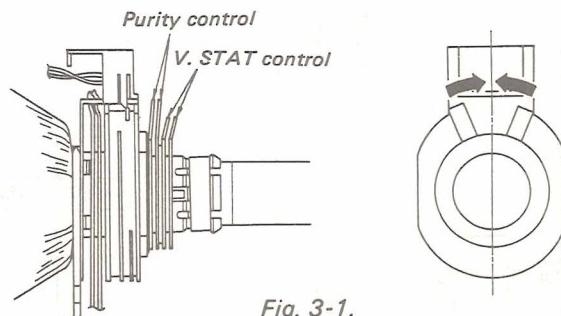


Fig. 3-1.

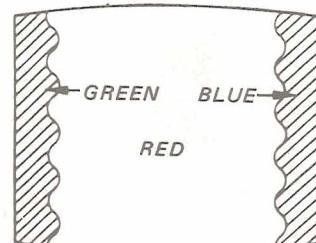


Fig. 3-2.

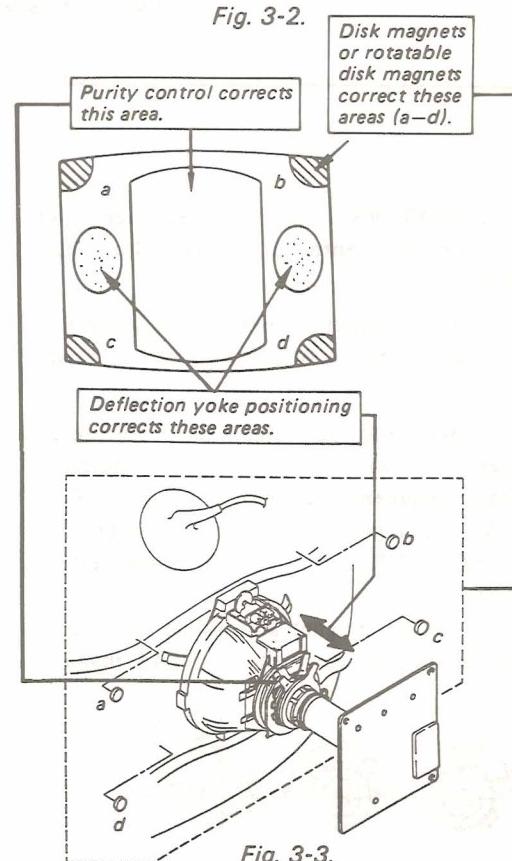


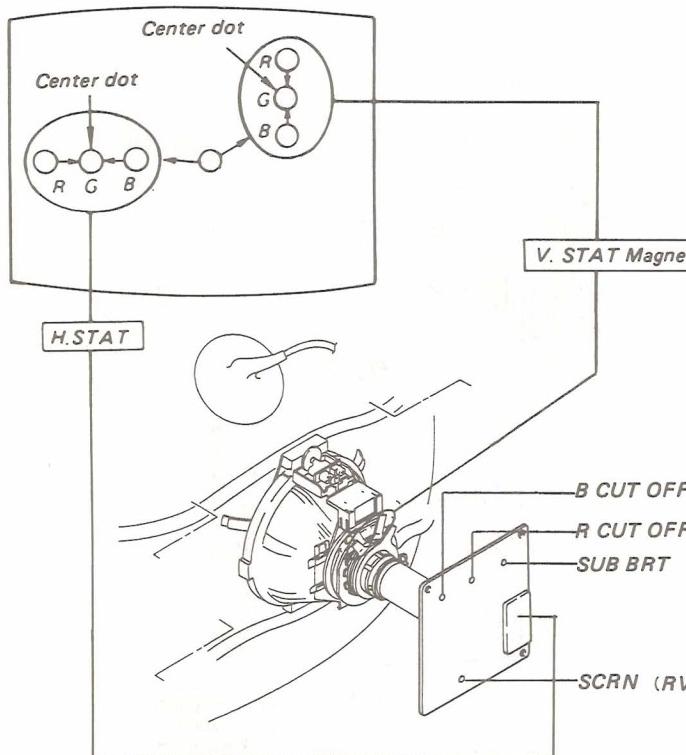
Fig. 3-3.

### 3-2. CONVERGENCE

#### Preparation:

- Before starting, perform FOCUS, H. SIZE, V. SIZE and V. LIN adjustments.
- Set BRIGHTNESS control to fully counterclockwise.
- Feed in the dot pattern.

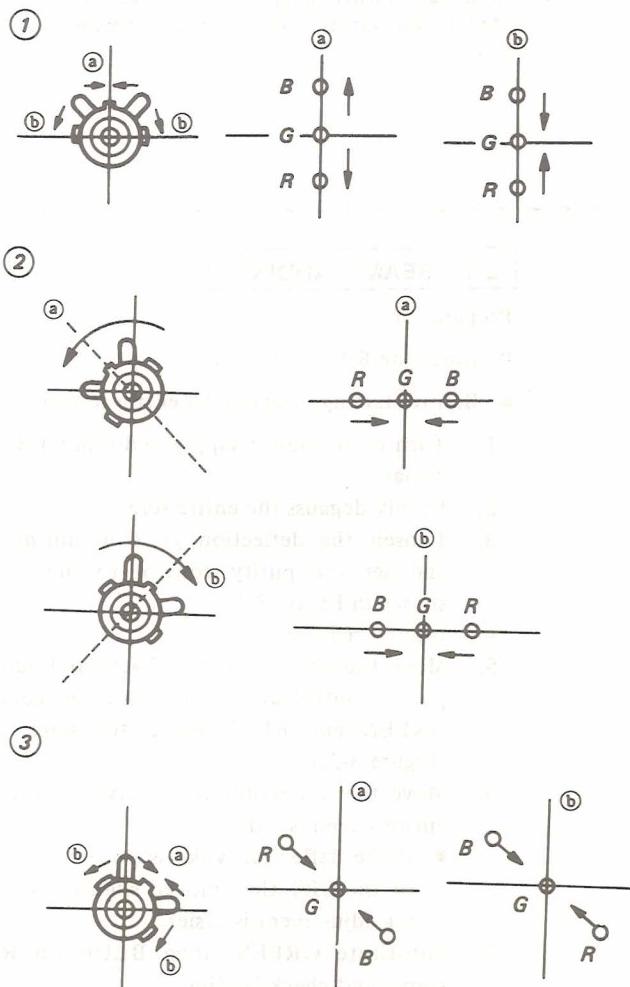
#### (1) Horizontal and Vertical Static Convergence



- Adjust H. STAT VR to coincide red, green and blue dots on the center of screen (Horizontal movement)
- Adjust V. STAT magnet to coincide red, green and blue dots on the center of screen (Vertical movement)
- If the red, green and blue dots do not coincide on the center of screen with H. STAT VR, perform horizontal convergence adjustment using H. STAT VR and V. STAT magnet as shown below. (In this case, H. STAT VR and V. STAT magnet effect each other.)
- Tilt the V. STAT magnet and adjust static convergence to open or close the V. STAT magnet.



- When the V. STAT magnet is moved in the direction of arrow ① and ⑤, Red, Green and Blue dots move as shown below.

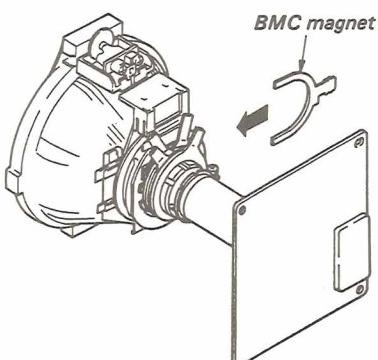


If blue dot does not coincide with red and green dots, perform following steps.

Move BMC magnet (a) to correct insufficient H. static convergence.

Rotate BMC magnet (b) to correct insufficient V. static convergence.

In either case, repeat Beam Landing Adjustment.



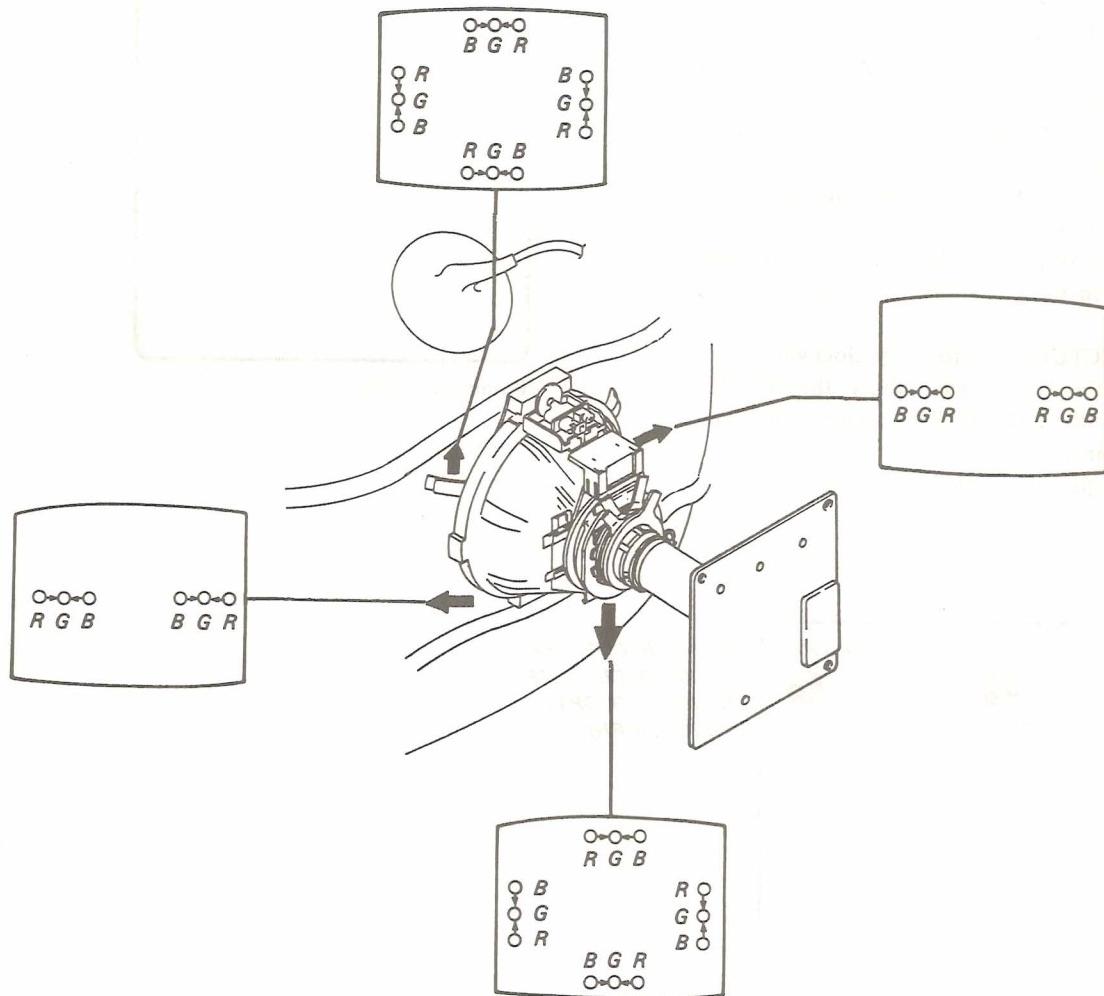
## (2) Dynamic Convergence Adjustment

### Preparation:

- Before starting, perform Horizontal and Vertical Static Convergence Adjustment.

1. Loosen deflection yoke screw.
2. Remove deflection yoke spacers.

3. Move the deflection yoke for best convergence as shown below.
4. Tighten the deflection yoke screw.
5. Install the deflection yoke spacers.



### 3-3. WHITE BALANCE ADJUSTMENT

#### 1) SCREEN ( $G_2$ ) adjustment

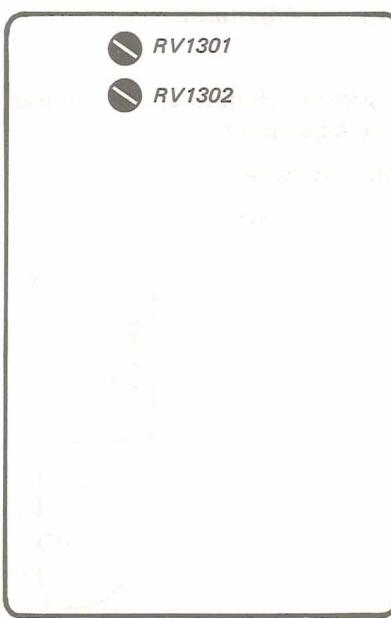
1. Confirm that  $G_1$  line voltage is  $30 \pm 5$  Vdc.
2. Adjust CUT OFF(R,B) so that R,B cathode voltage becomes 180 V DC.

Adjust with  $G_2$  VT immediately prior to the disappearing of the luminescent line.

#### 2) W/B adjustment

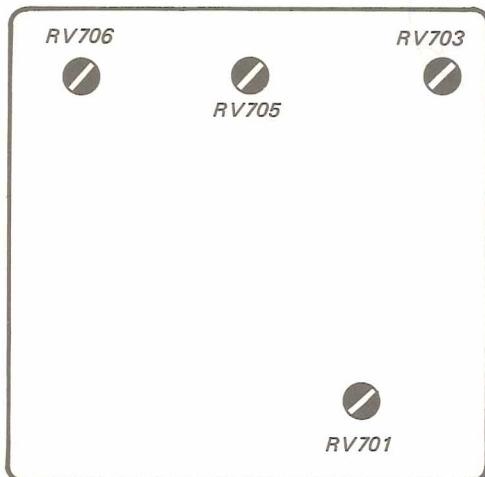
1. Input a all white signal.
2. Set the PICTURE control to minimum and turn the BRIGHT control mechanical center.
3. Set R CUT OFF(R,B) and RV703 (B CUT OFF) to minimum.
4. Turn RV701 (SUB BRT) slowly to obtain a faintly visible cross-hatch.  
Note the color that first becomes visible by turning RV701.
5. Adjust the other two BKG controls for best white balance (neutral gray) of the faint cross-hatch.
6. Set the PICTURE control fully clockwise.  
Observe the screen and adjust the RV1301 (G,H/L), RV1302 (B,H/L) controls for best white balance. (B Board)
7. Repeat steps 1, through 7.

**B Board**



RV1301 (G,H/L)  
RV1302 (B,H/L)

**C Board**



RV703 (B CUT OFF)  
RV705 (R CUT OFF)  
RV706 (SUB. BRT)  
RV701 (SCRN)

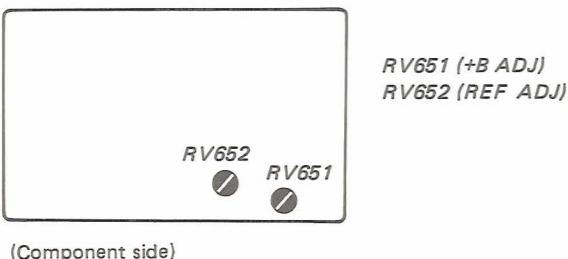
## SECTION 4 CIRCUIT ADJUSTMENTS

### 4-1. FA BOARDS ADJUSTMENT

#### +B Line Adjustment

1. Supply 220V ac to with variable auto-transformer.
2. Adjust RV651 so that the +B line is  $140V \pm 0.5V$ .
3. Adjust RV652 so that the pin ① or IC651 is  $32 \pm 0.1V$ .

**FA Board**



(Component side)

### 4-2. D BOARD ADJUSTMENTS

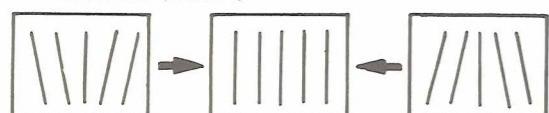
#### Horizontal Position Adjustment

1. Check that H center moves to the right and left with horizontal position VR (RV555), then adjust horizontal position to center.

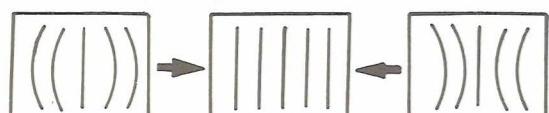
#### Picture Distortion Adjustment

1. Picture distortion adjustment  
Input a signal equivalent to a crosshatch signal.

#### • PIN PHASE (RV553)



#### • PIN AMP (RV552)



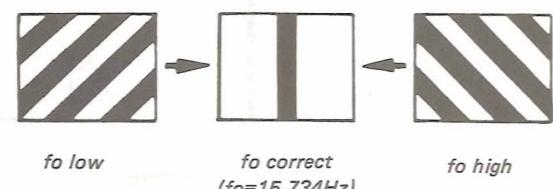
2. Adjust RV554 (H.SIZE) so that H.SIZE is best.
3. Adjust RV555 (H.CENT) so that horizontal position is center.

#### V.SIZE V.CENT

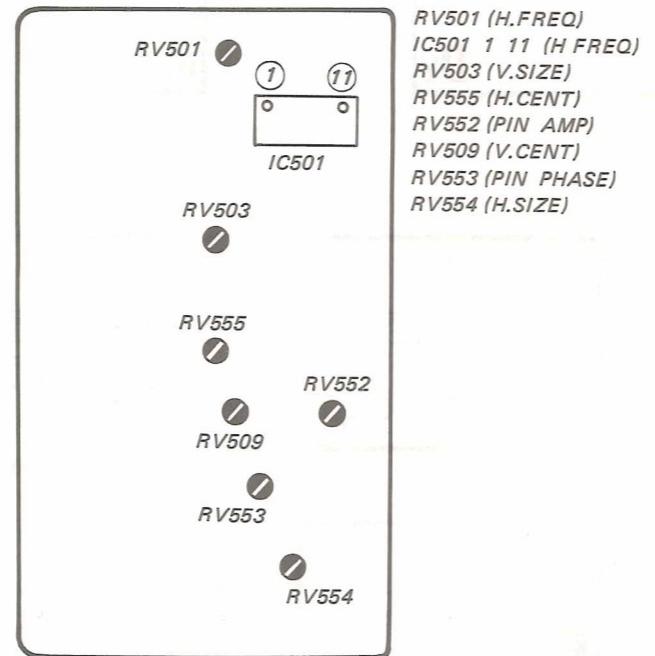
Adjust RV503 and RV509 for a best vertical SIZE Picture.

#### H.FREQ Adjustment

1. Input a color bar signal and short between IC501 pins ① and ⑪.  
Also short board IC401 pins ⑯ and ⑰.
2. Adjust H.FREQ VR (RV501) so that picture flow is as shown in Figure.
3. After adjustment, remove the connections in step ①.



**D Board**

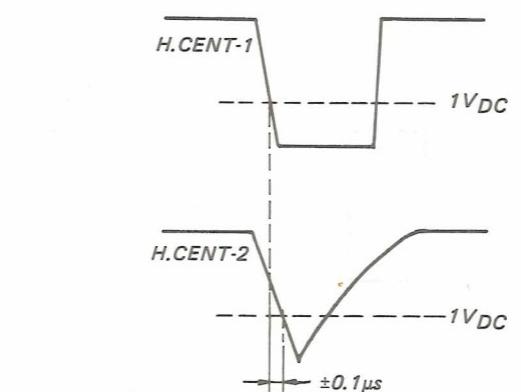
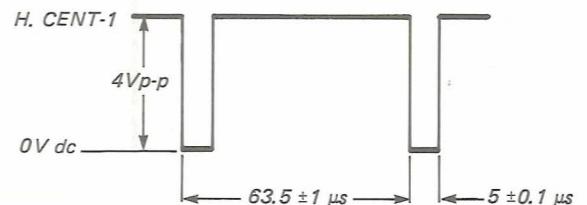


(Component side)

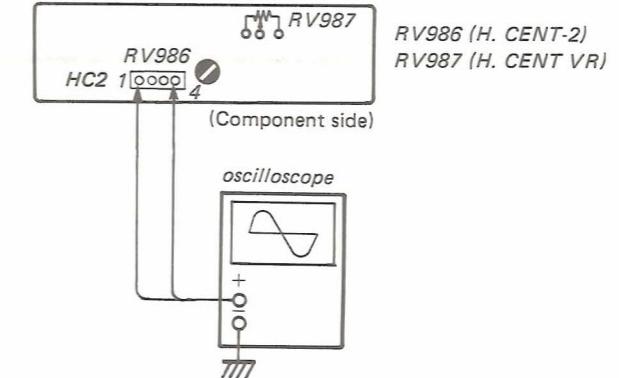
### 4-3. HC BOARD ADJUSTMENT

#### H. CENTER Adjustment (DIGITAL RGB)

1. Connect to the digital RGB output connector of a microcomputer.
2. Press to select the RGB mode.
3. Turn the H. CENT VR (RV987---- Rear control panel) to center position.
4. Connect the oscilloscope to pin ④ of HC-2 connector and pin ⑦ of HC-2 connector.
5. Adjust RV986 (H. CENT-2) so that the phase difference level is  $\pm 0.1\mu\text{s}$ .



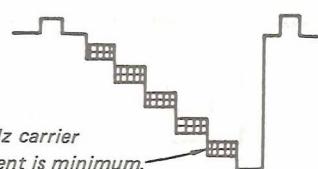
**HC Board**



### 4-4. B BOARD ADJUSTMENTS

#### Y Chroma Adjustment

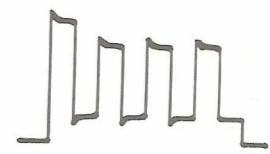
1. Input a PAL color bar signal.
2. Connect an oscilloscope to pin ⑯ of IC301, and adjust so that chroma component is minimum on pin ⑯ of IC301 waveform while tracking with L451 (4.43 MHz).



3. Input a NTSC (3.58) color bar signal.
4. Connect an oscilloscope to pin ⑯ of IC301 and adjust so that croma component is minimum on pin ⑯ of IC301 waveform while tracking with L452.

#### COLOR BALANCE Adjustment

1. Input a SECAM color bar signal and set PICTURE to maximum.  
Press "RESET" to set color to standard state.
2. Observe blue output (TP33) waveform on the oscilloscope and adjust L421 (B-Y) so that the black portion of the color bar is the same level as the pedestal.



3. Observe blue output (TP31) waveform on the oscilloscope and adjust L405 (R-Y) so that the black portion of the color bar is the same level as the pedestal.



SECTION 5  
DIAGRAMS

## ANTI-PAL, LINE CRAWLING Adjustment

1. Input a PAL color bar signal and set PICTURE to maximum.  
Press "RESET" to set COLOR, HUE and BRT to standard state.
2. Confirm that there is no color on the first anti-PAL signal frames at the right and left of the picture. If sides while tracking with RV303.
3. Adjust T301 (DAT) for minimum line crawling.
4. Confirm the anti-PAL adjustment in 2, and repeat 3, and 1 if necessary.

## APC Adjustment

## 4.43 adjustment

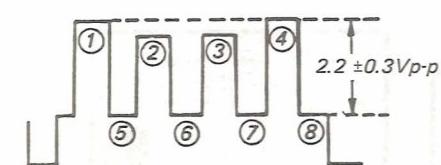
1. Input a PAL color bar signal.
2. Short pin ⑪ and pin ⑫ on IC301.
3. Adjust CT443 to get color sync.

## 3.58 adjustment

4. Input a NTSC (3.58 MHz) color bar signal.
5. Adjust CT358 to get color sync.

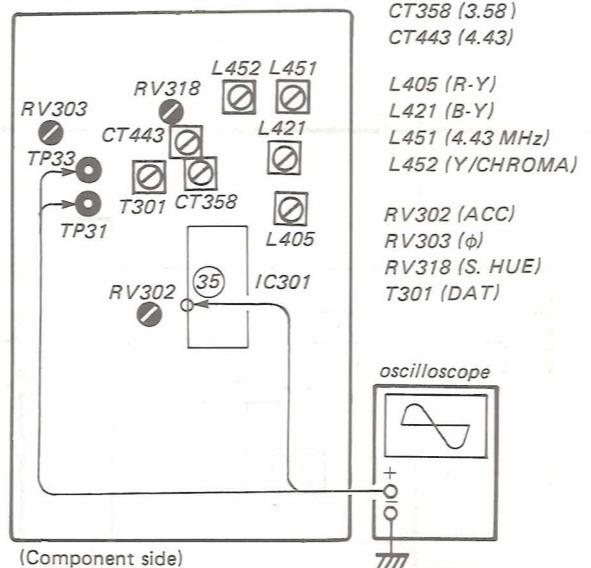
## ACC, HUE CENT Adjustment

1. Input a PAL color bar signal and set PICTURE maximum.
2. Adjust RV302 (ACC ADJ) so that blue output (TP33) waveform is as shown in figure.

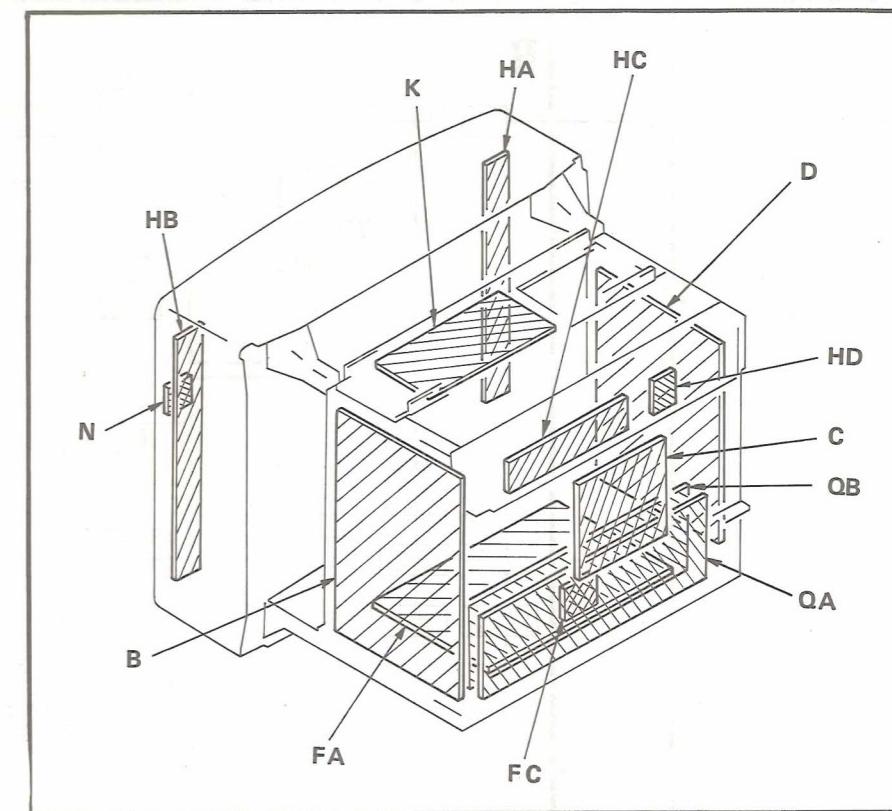


3. Input a NTSC (3.58 or 4.43) color bar signal and set PICTURE to maximum.  
Press "RESET" to set COLOR, HUE and BRIGHTNESS to standard state.
4. Adjust RV318 (S. HUE) so that blue output (TP33) waveform is as shown in figure.

B Board

CT358 (3.58)  
CT443 (4.43)L405 (R-Y)  
L421 (B-Y)  
L451 (4.43 MHz)  
L452 (Y/CHROMA)RV302 (ACC)  
RV303 (φ)  
RV318 (S. HUE)  
T301 (DAT)

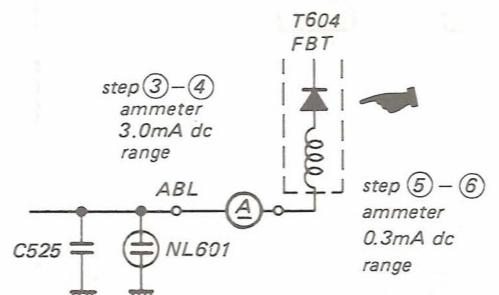
## 5-1. CIRCUIT BOARDS LOCATION



## 4-5. SAFETY CHECK ADJUSTMENT

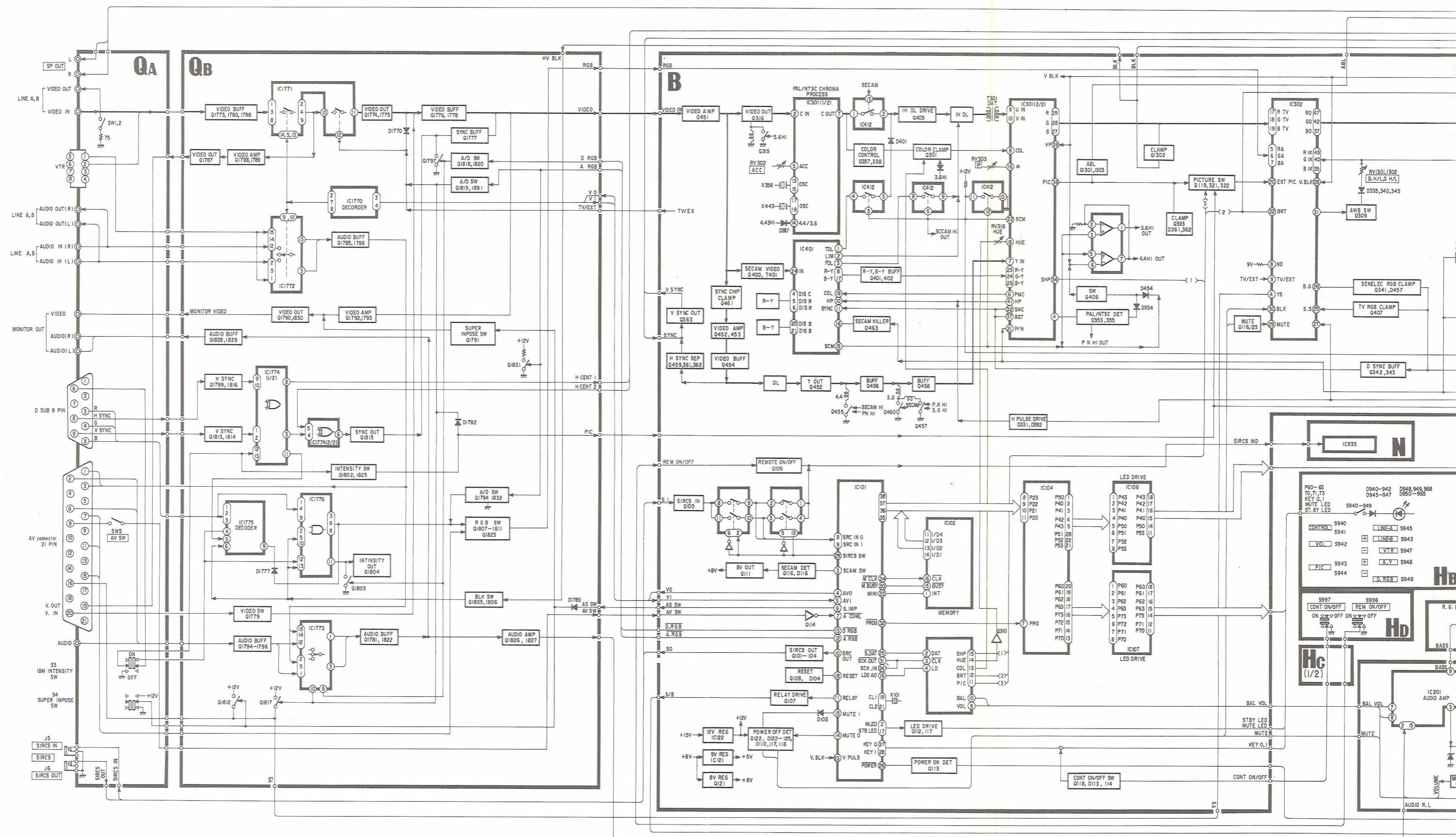
## HOLD DOWN ADJUSTMENT (\*R531)

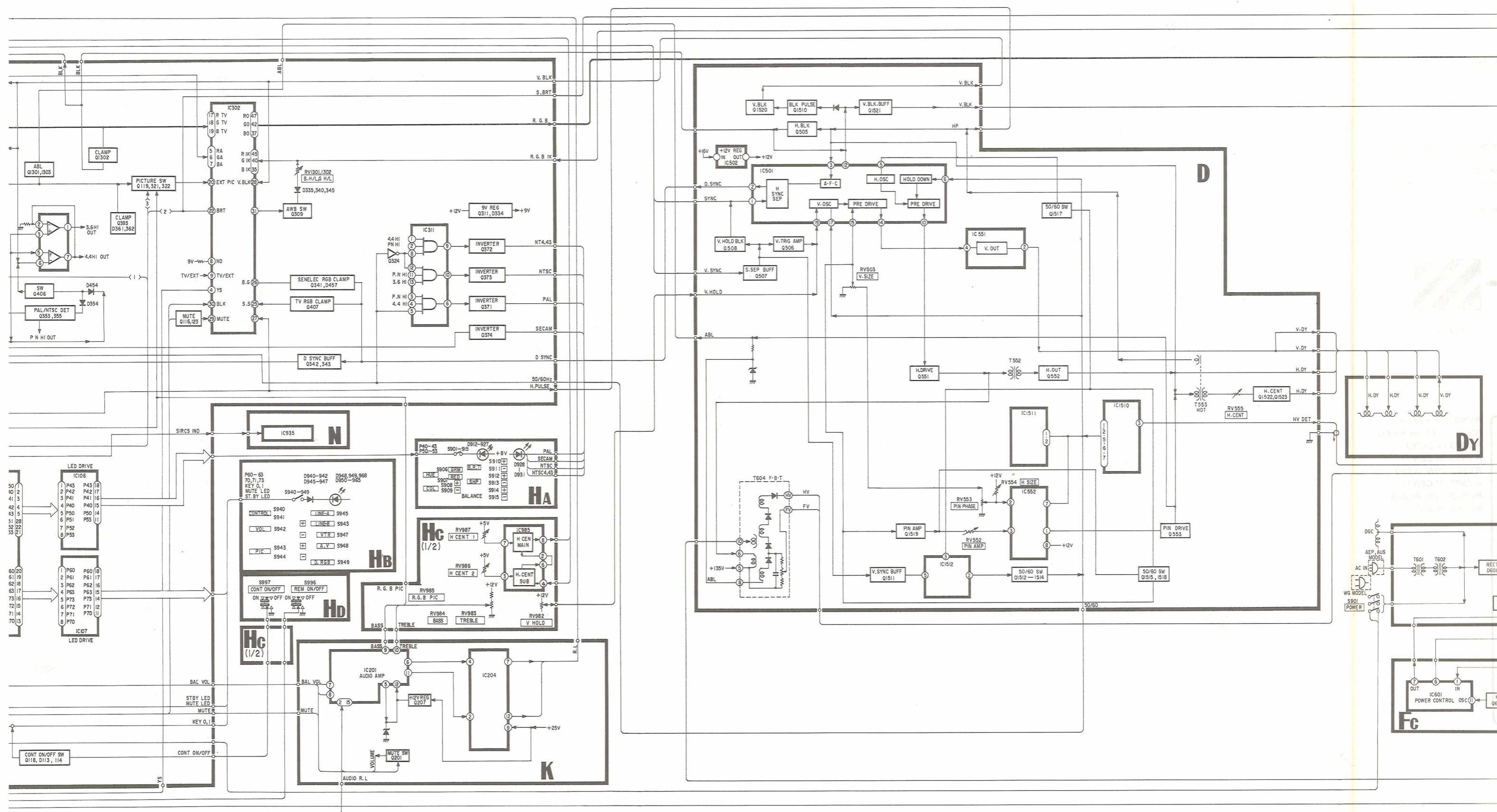
1. Turn the POWER switch ON, and receive entirely white signals and set the PICTURE and BRIGHTNESS control to maximum.
  2. Confirm that the voltage of the IC1510 ① pin is more than 15.78V DC when the set is operating normally with 120V AC supply.
  3. Adjust ABL current to  $1400 \pm 30 \mu\text{A}$  with PICTURE and BRIGHTNESS. (ammeter 3.0mA dc range)
  4. Confirm that there is less than 18.35V DC where by the raster disappears during operation of hold-down circuit. (HOLD DOWN check point of IC1510 ① pin)
  5. Adjust ABL current to  $210 \pm 3 \mu\text{A}$  with PICTURE and BRIGHTNESS. (ammeter 0.3mA dc range)
  6. Confirm that there is less than 19.25V DC where by the raster disappears during operation of hold-down circuit. (HOLD DOWN check point of IC1510 ① pin)
- Note: If the hold-down circuit starts operating in the above case, switch OFF the POWER of the set immediately.
7. If above steps is not satisfied, select resistance value of R597 and repeat above steps 1 through 6.

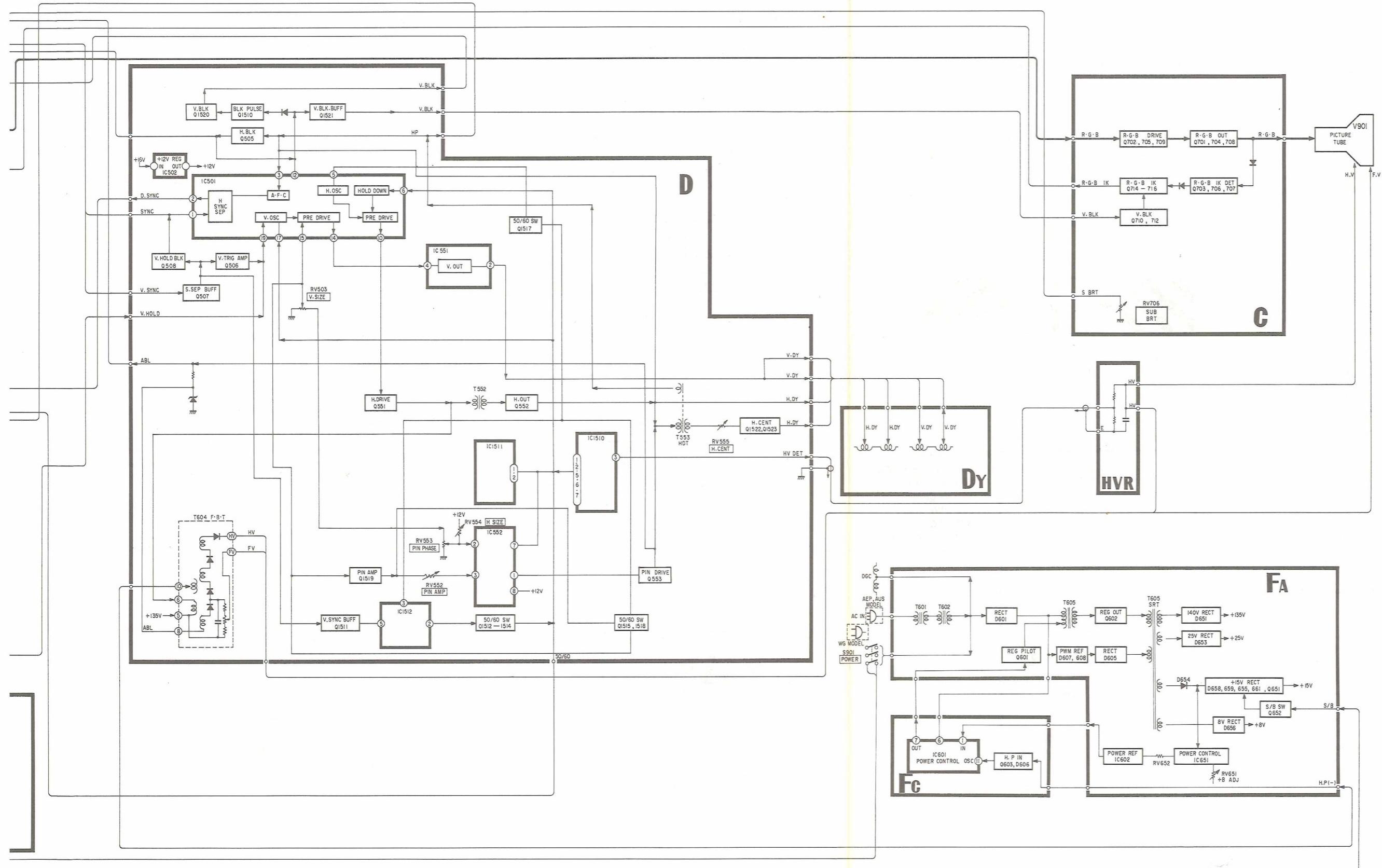




## 5-2. BLOCK DIAGRAM



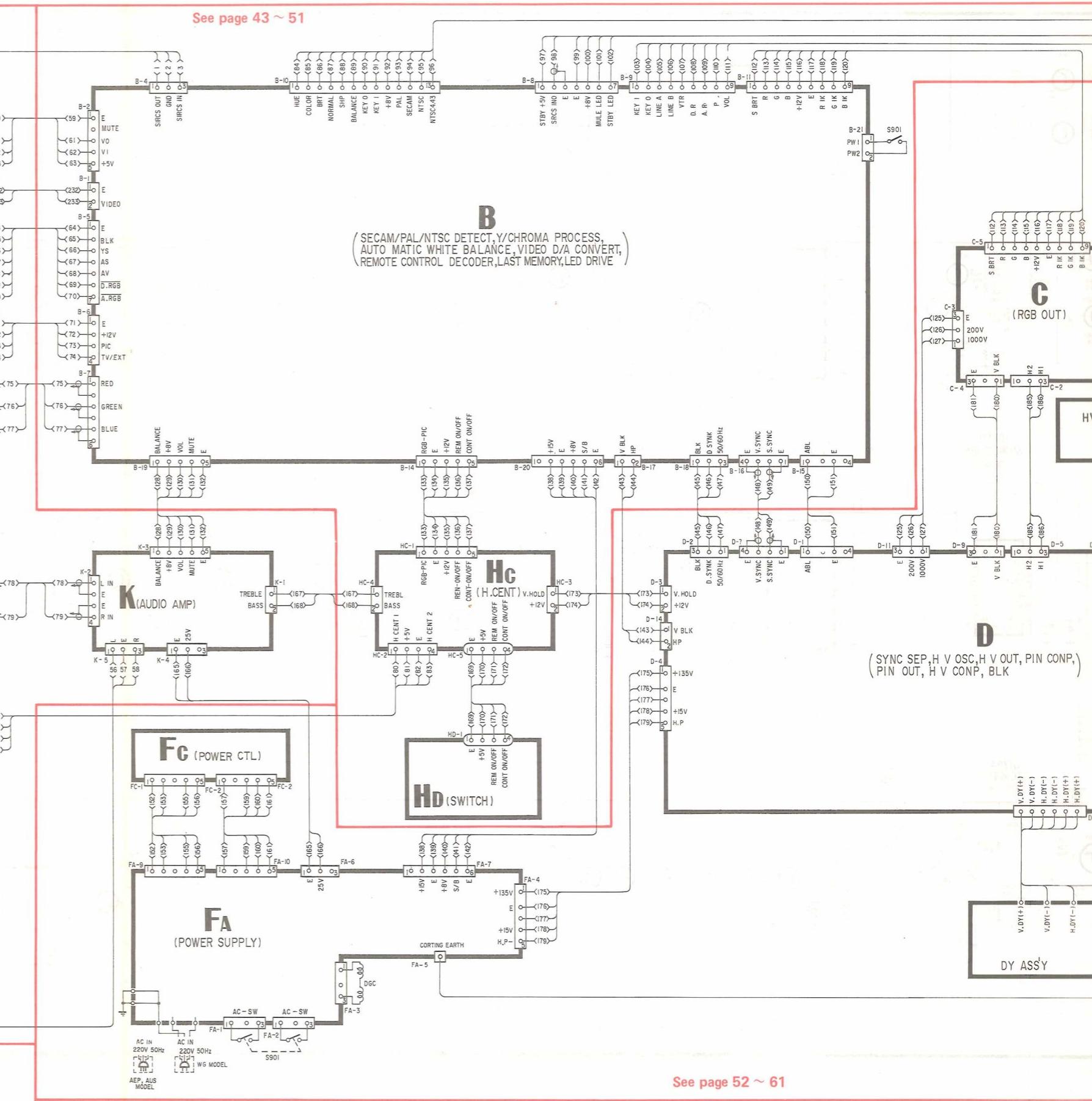
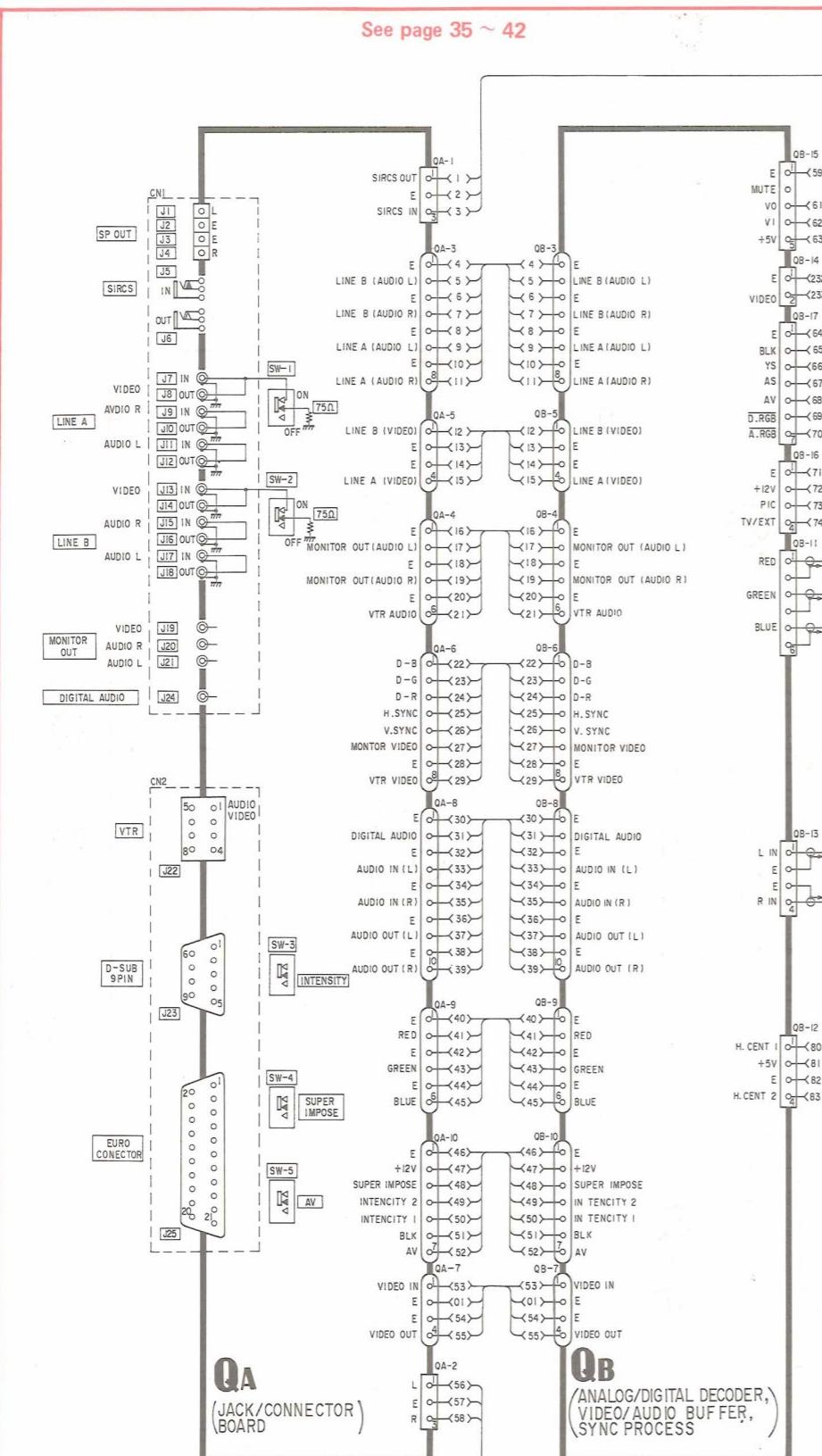




## 5-3. FRAME SCHEMATIC DIAGRAM

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

A



See page 52 ~ 61

B

C

D

E

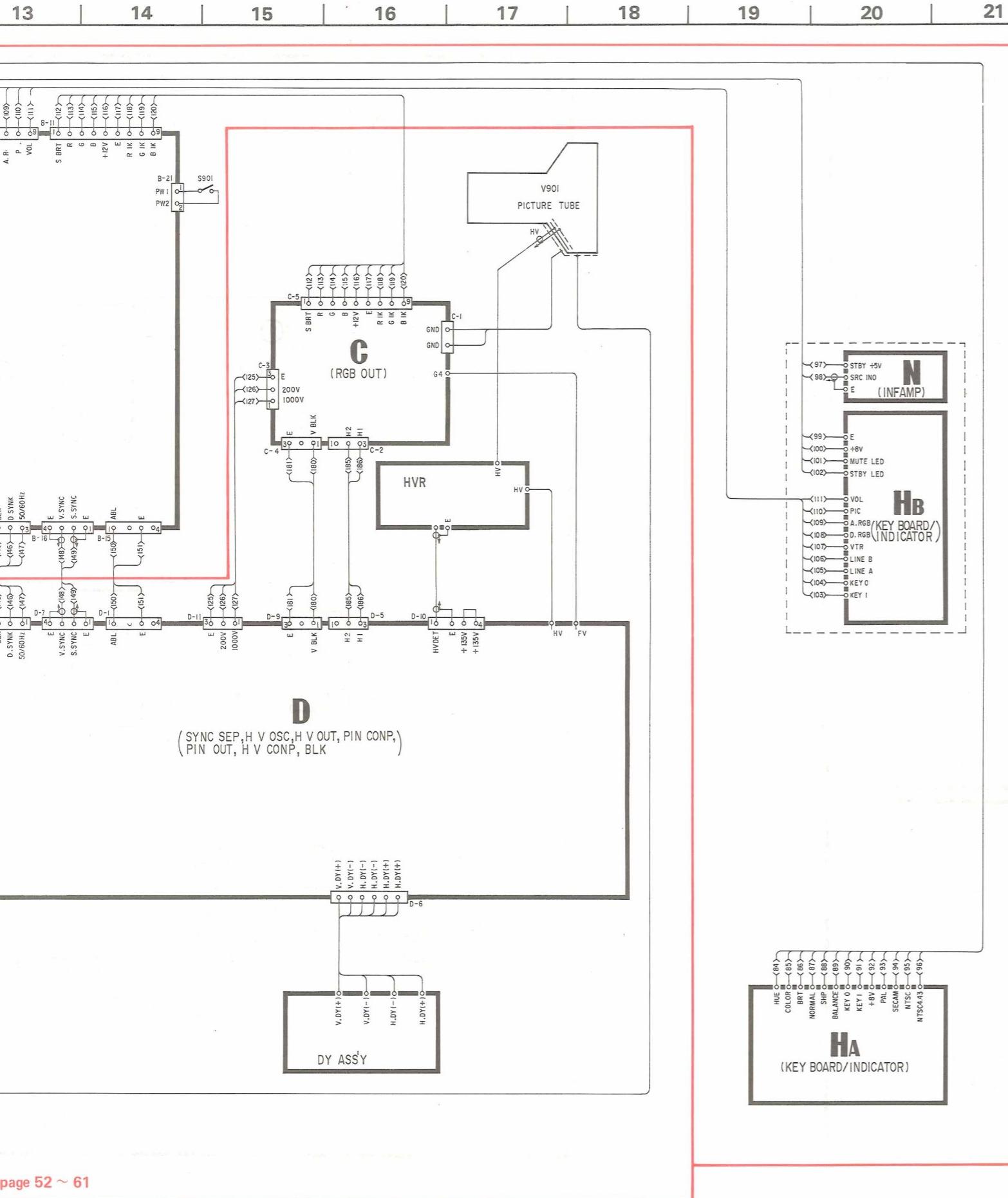
F

G

H

I

J



See page 52 ~ 61

Technical Data Sheet - PVM-2130QM

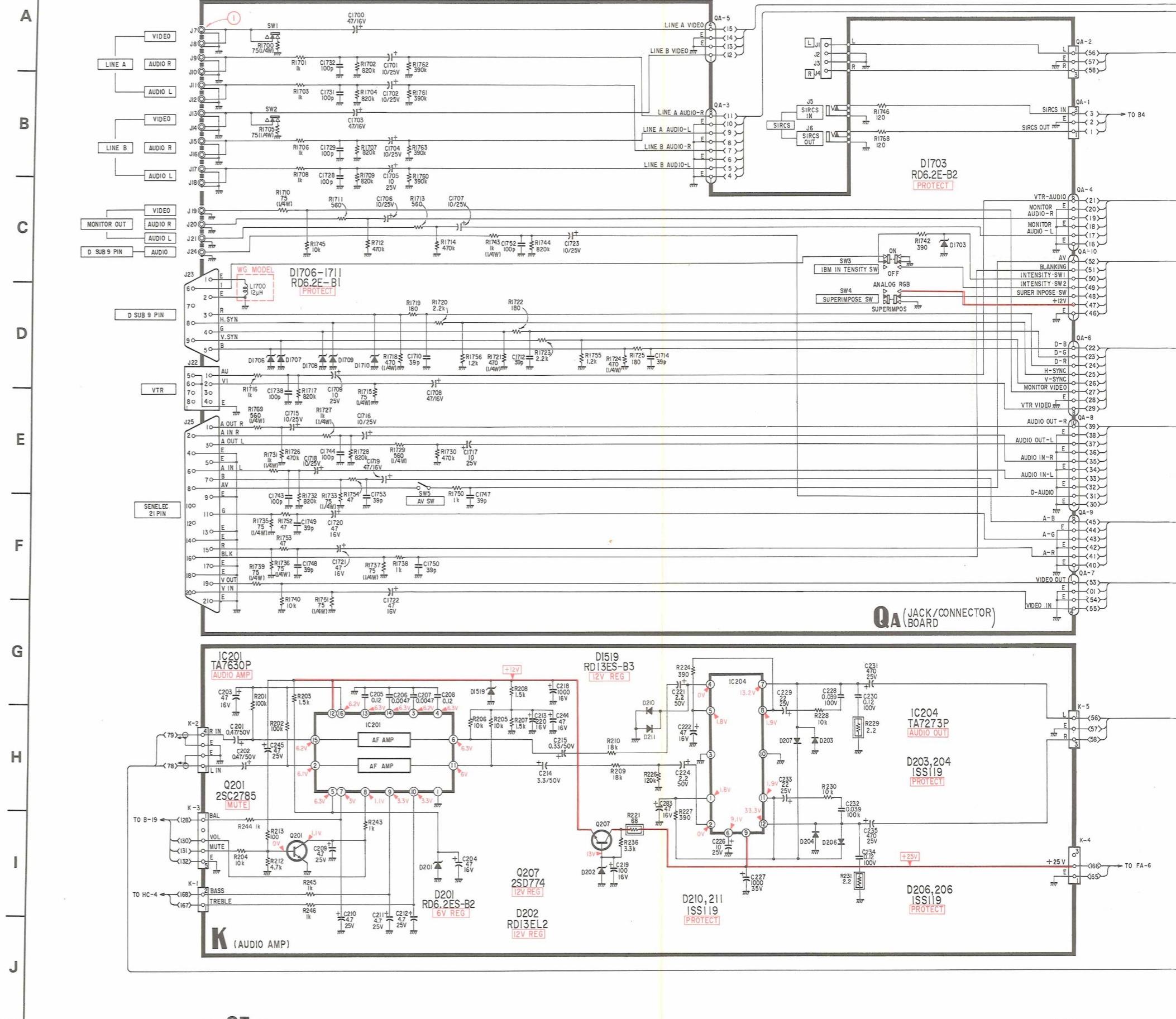
Rev. A, 12/10/01  
Document ID: 100-00000000000000000000000000000000

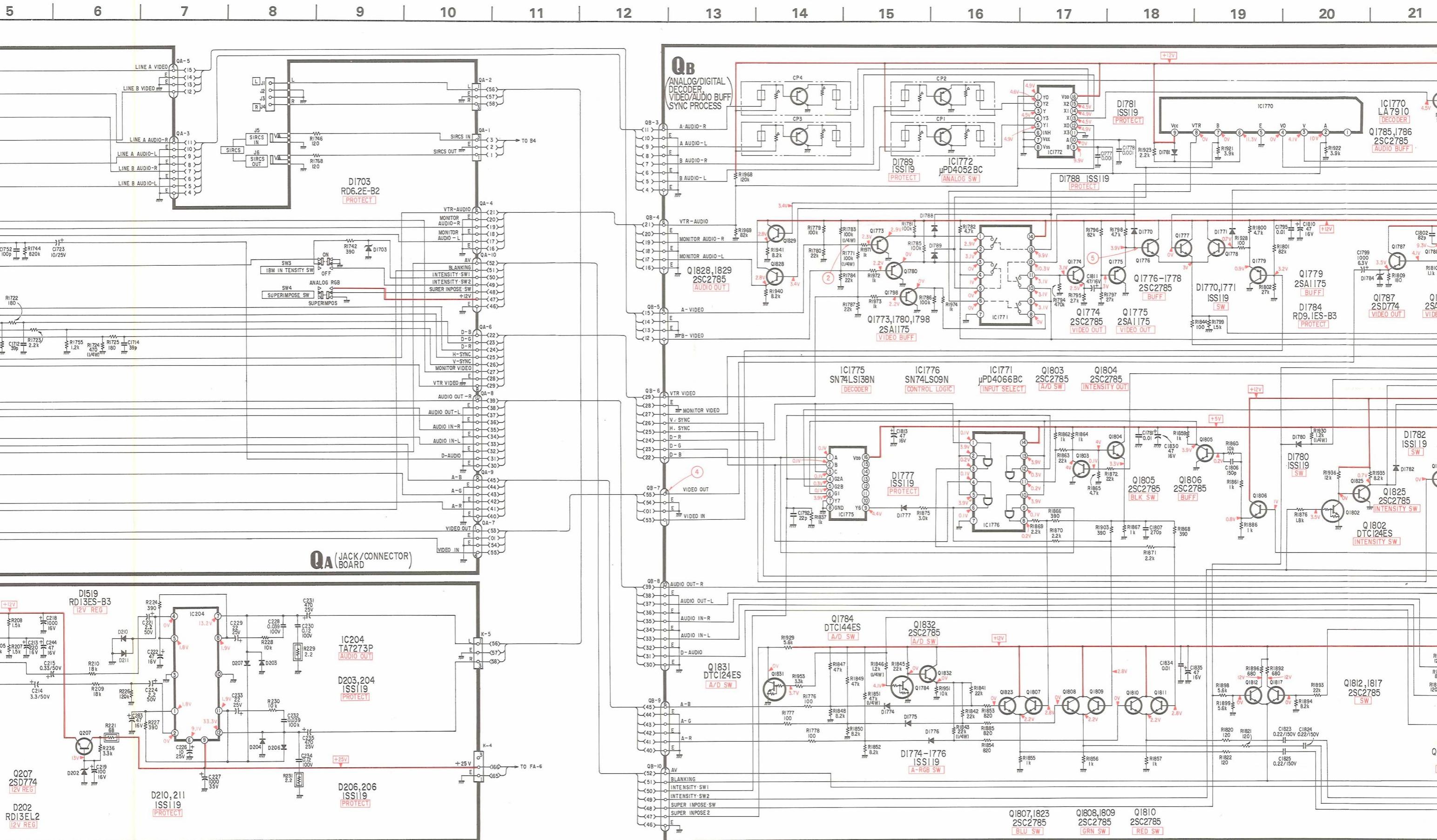
1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11

## 5-4. SCHEMATIC DIAGRAM AND PRINTED WIRING BOARDS

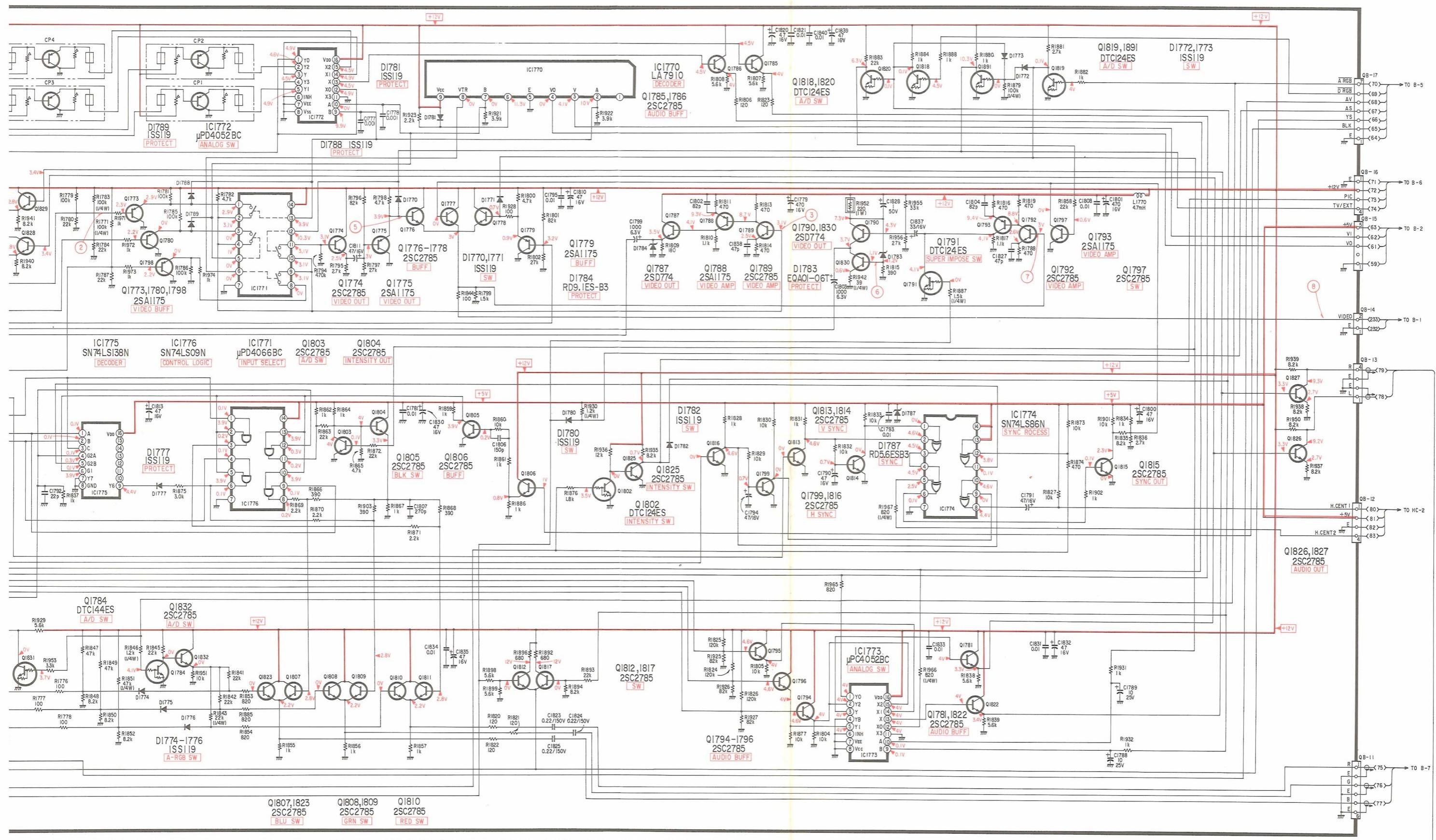
**Note:**

- All capacitors are in  $\mu\text{F}$  unless otherwise noted.
- 50WV or less are not indicated except for electrolytics.
- $\mu\mu\text{F}$
- All resistors are in ohms. $1/4\text{W}$  unless otherwise noted.
- $\text{k}\Omega : 1000\Omega$ ,  $\text{M}\Omega : 1000 \text{ k}\Omega$
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- nonflammable resistor.
- internal component.
- panel designation.
- adjustment for repair.
- B+ bus.
- B- bus.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a  $10 \text{ M}\Omega$  digital multimeter.
- Voltage variations may be noted due to normal production tolerances.
- Readings are taken with a color-bar-signal input.
- no mark: with PAL color-bar signal received.
- < > : with SECAM color-bar signal received.
- [ ] : with NTSC (3.58) color-bar signal received.
- \* : Selected to yield optimum performance.





14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29





[AUDIO AMP CONTROL.]

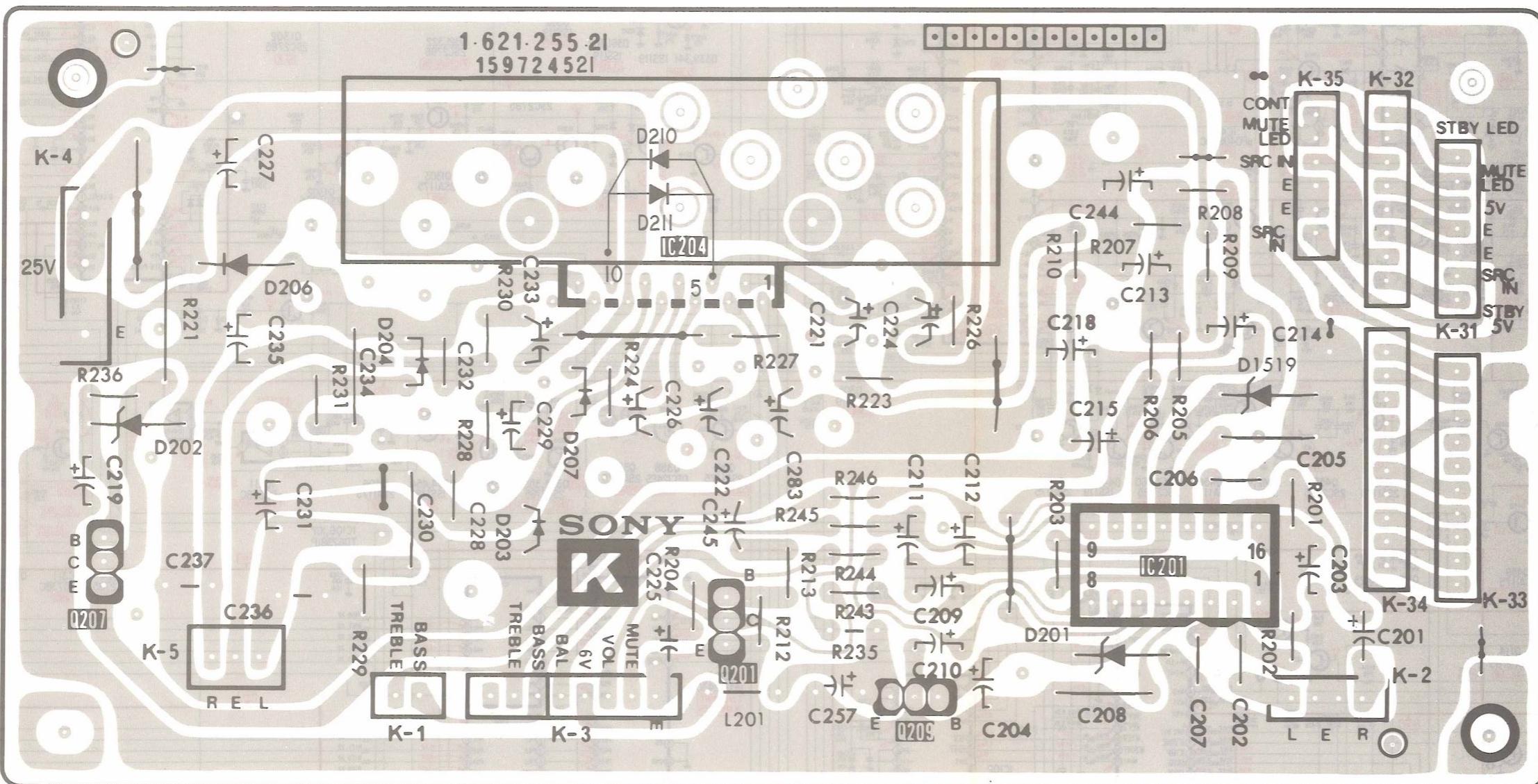
K

K

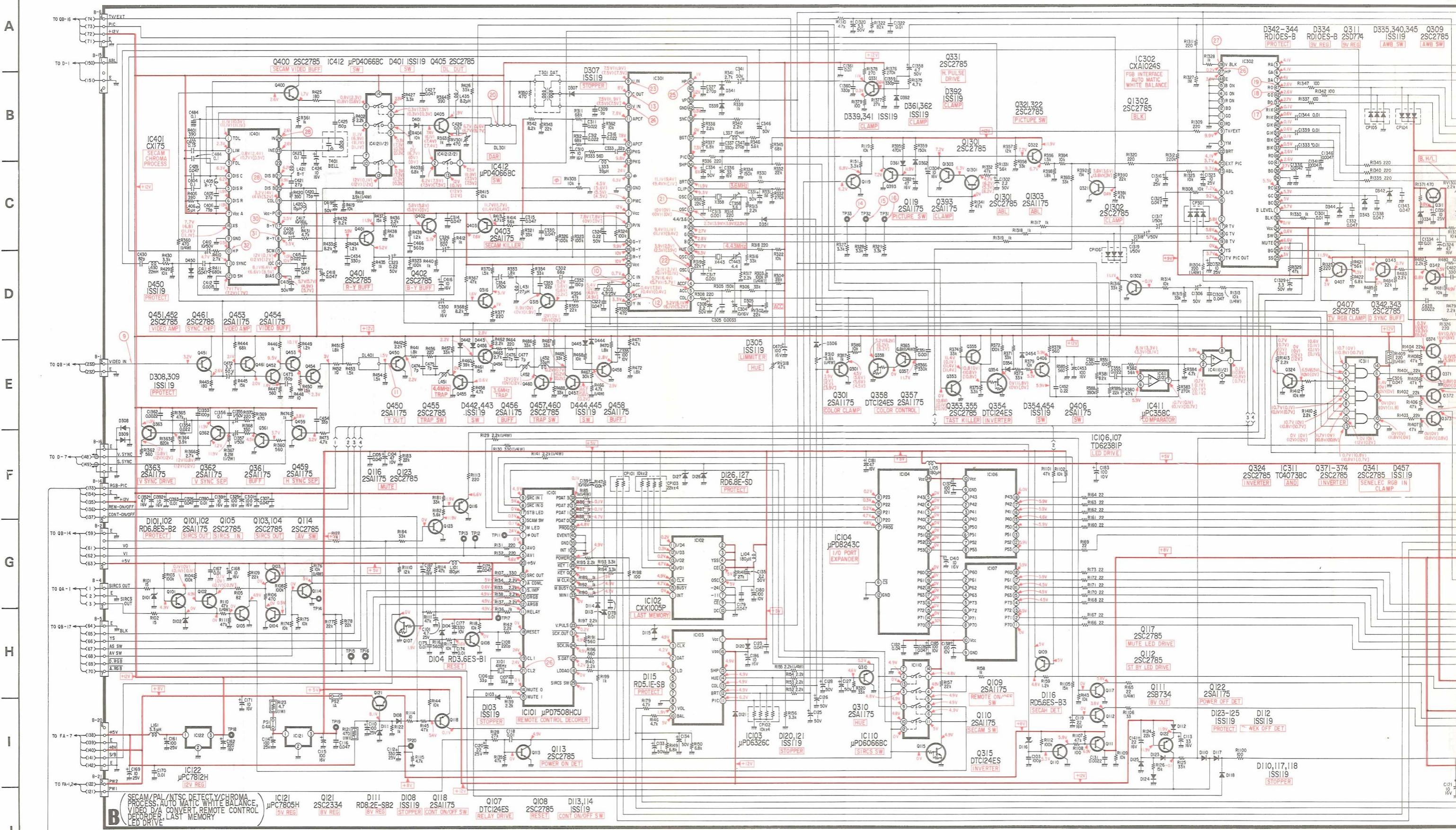
15 16 17 18 19 20 21 22 23 24 25 26 27 28

A B C D E F G H I J

K Board



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



15

16

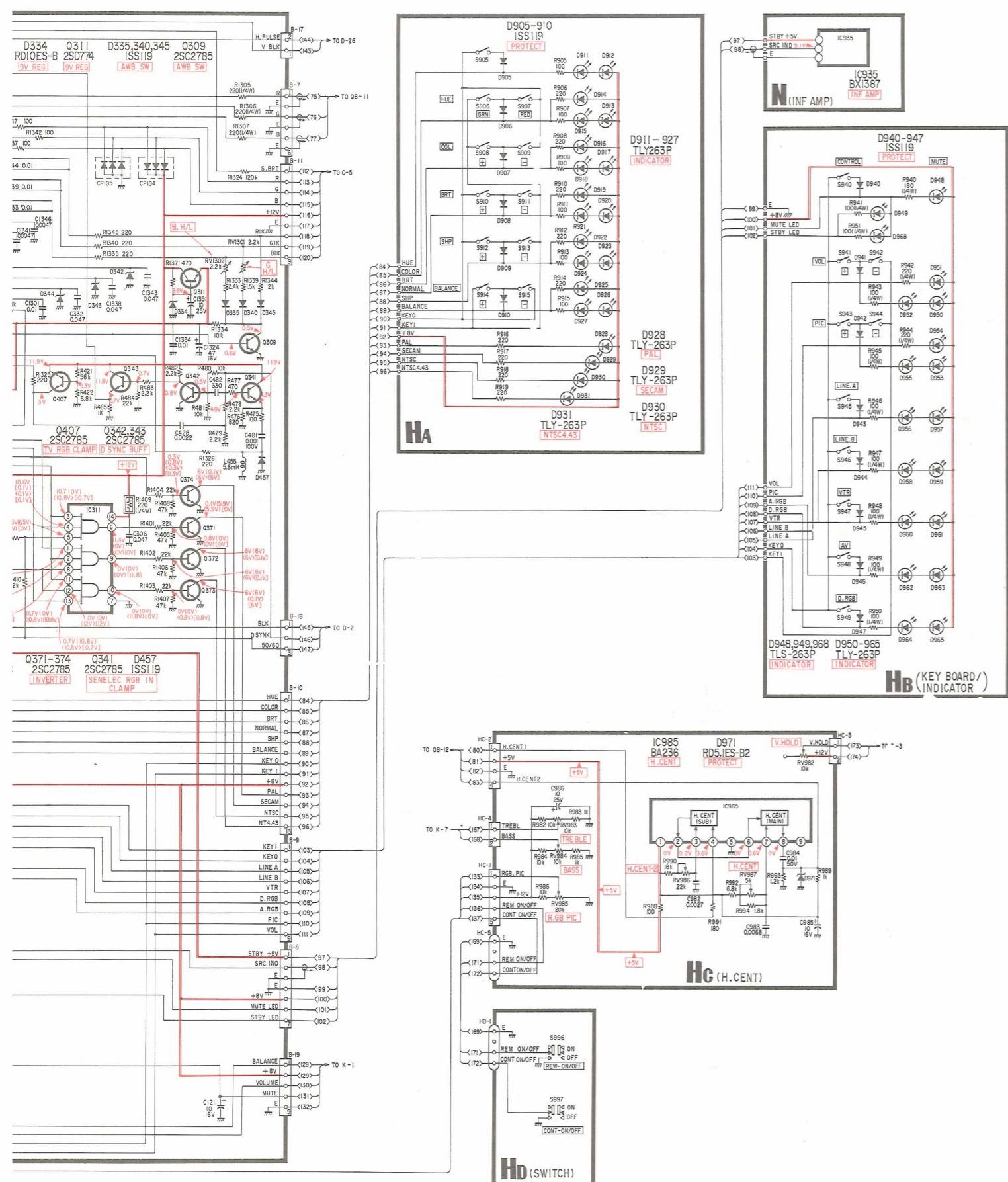
17

18

1

1

1



【 B BOARD】

PAL	SECAM	NTSC 3.58 4.43	PAL	SECAM	NTSC 3.58 4.43
⑨ Q451B 			⑯ IC302 ④ 		
0.9Vp-p(H)	0.9Vp-p(H)	0.9Vp-p(H)	3.6Vp-p(H)	3.8Vp-p(H)	3.6Vp-p(H)
⑩ IC301 ② 			⑯ IC302 ④ 		
0.8Vp-p(H)	0.5Vp-p(H)	3.58, 0.9Vp-p(H) 4.43, 0.8Vp-p(H)	3.2Vp-p(H)	3.2Vp-p(H)	3.2Vp-p(H)
⑪ Q450B 			⑯ IC302 ④ 		
1.1Vp-p(H)	1.1Vp-p(H)	1.1Vp-p(H)	3.5Vp-p(H)	3.2Vp-p(H)	3.5Vp-p(H)
⑫ IC301 ③ 			⑯ DL301 ② 		
0.9Vp-p(H)	0.9Vp-p(H)	0.9Vp-p(H)	0.15Vp-p(H)	0.2Vp-p(H)	3.58 - 0.28Vp-p(H) 4.43 - 0.23Vp-p(H)
⑬ IC301 ⑦ 			⑯ IC301 ③ 		⑯ IC401 ⑩ 
0.2Vp-p(H)		0.34Vp-p(H)	1.4Vp-p(3.58MHz)	2.2Vp-p(H)	SECAM 0.18Vp-p(H)
⑭ TP33 			⑯ IC301 ⑦ 		⑯ IC401 ⑦ 
3.9Vp-p(H)	2.8Vp-p(H)	3.9Vp-p(H)	1.9Vp-p(4.43MHz)	6.2Vp-p(H)	SECAM 2Vp-p(H)
⑮ TP32 			⑯ IC301 ⑨ 		⑯ IC401 ⑧ 
2.6Vp-p(H)	2.2Vp-p(H)	2.6Vp-p(H)	PAL 0.23Vp-p(H)	3.6Vp-p(H)	SECAM 2Vp-p(H)
⑯ TP31 			⑯ IC301 ⑩ 		⑯ IC401 ⑩ 
2.8Vp-p(H)	3.4Vp-p(H)	2.8Vp-p(H)	PAL 0.27Vp-p(H)	SECAM 0.36Vp-p(H)	1.5Vp-p(H)

[SECAM/PAL/NTSC DFTFCT, Y/CHROMA PROCESS  
AUTOMATIC WHITE BALANCE, VIDEO D/A CONVERT  
REMOTO CONTROL DECODER, LAST MEMORY,  
LED DRIVE.]

B

1            2            3            4            5            6            7            8            9            10          11          12          13          14          15          16

## B Board

A

1

C

D

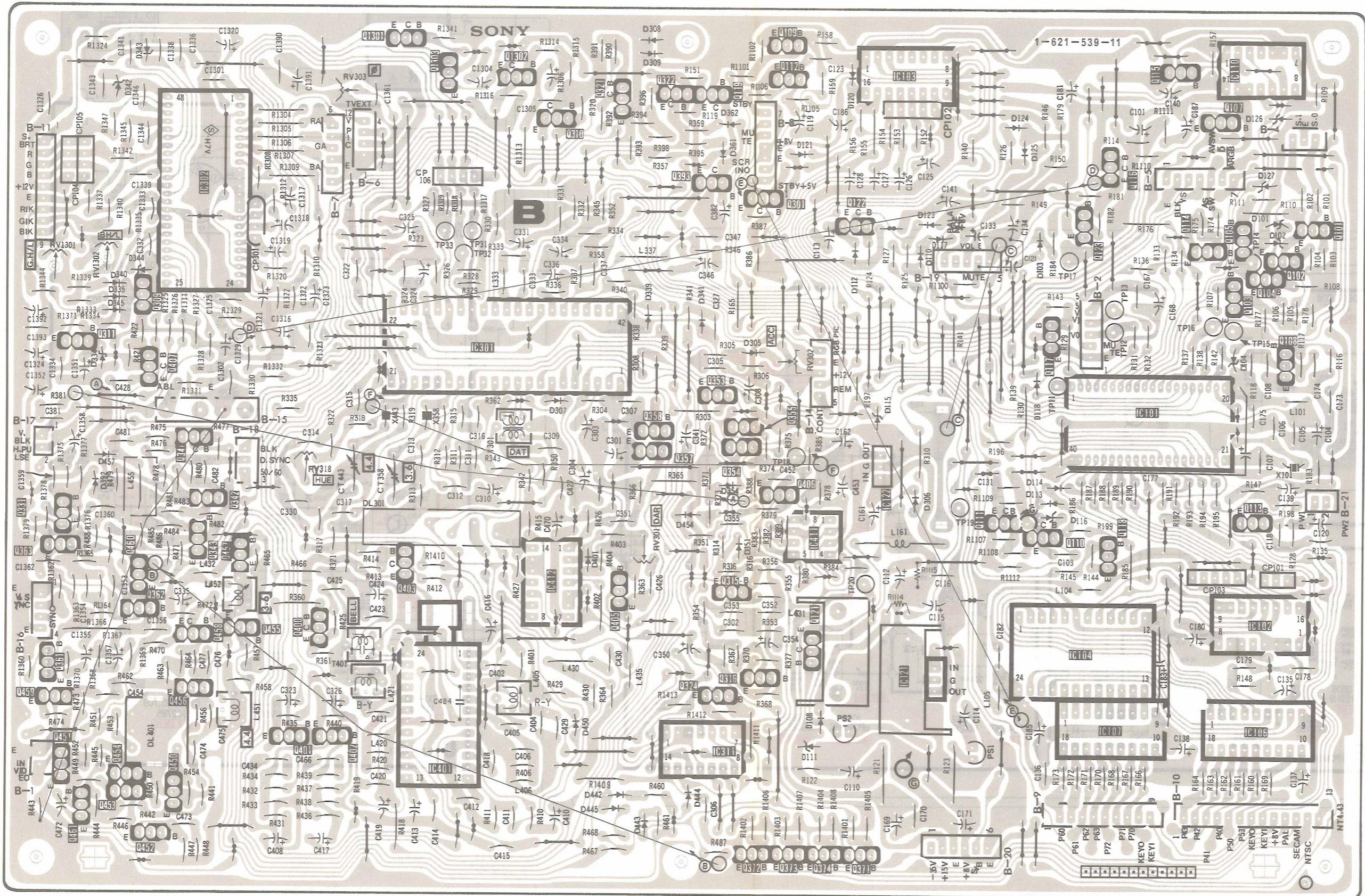
F

E

C

10

四



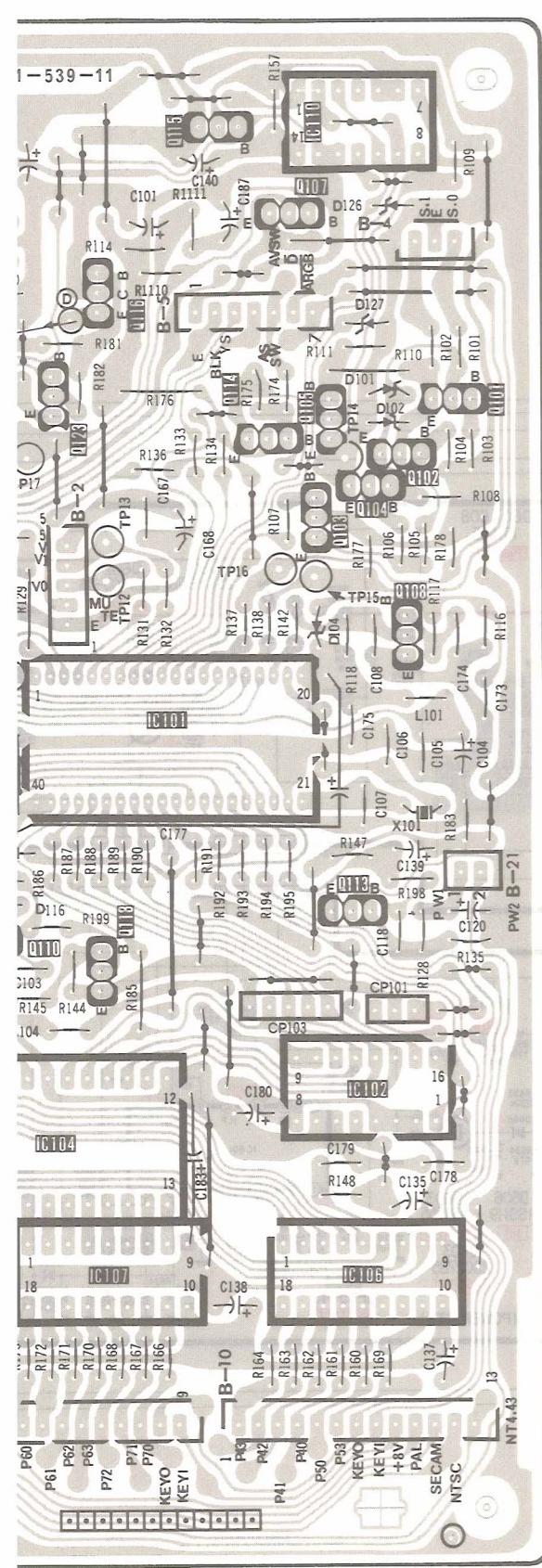
IC	Q	D	ADJ	TP
1301	109	308		
	IC110	343		
1303	115	309		
1302	IC103	120		
1302	112	342		
321, 322				
119	107	362 126	RV303	
310		124		
	116	361 125		
		121		
393		127		
301				
IC302		101		
122, 123	101	123		
105		117, 102	RVI301	31
114	102	103	RVI302	17
		112		14
104		110		33
103		344		32
		340		
		335		
309		345		
		339		13
	117	341		16
IC301	108	305 104	RV302	15
311		334 118		12
407	353	307		
	IC101	115		
358, 355				
357, 354				
IC122		457	CT443	18
341	406	354	CT358	
		392 114	RV318	
		306		
		454 113		
		113		
342		116		
331	IC411	110		
343				
363, 457		118		
460	403	351		
		401		
IC412				
405, 315				
362	IC102			
400				
455	IC104			
456	121			
361				
316	IC121			
324				
459, 456				
IC401				
401	IC106	450 108		
402	IC107			
	IC311	111		
451				
454				
453				
450		442, 444		
461		445, 443		
452				
372, 373				
374, 371				

[H.CENT.] **HC** [KEY BOARD INDICATOR.] **HB** [KEY BOARD INDICATOR.] **HA**  
**HA** **HB** **HC** **HD** [SWITCH.] **N**

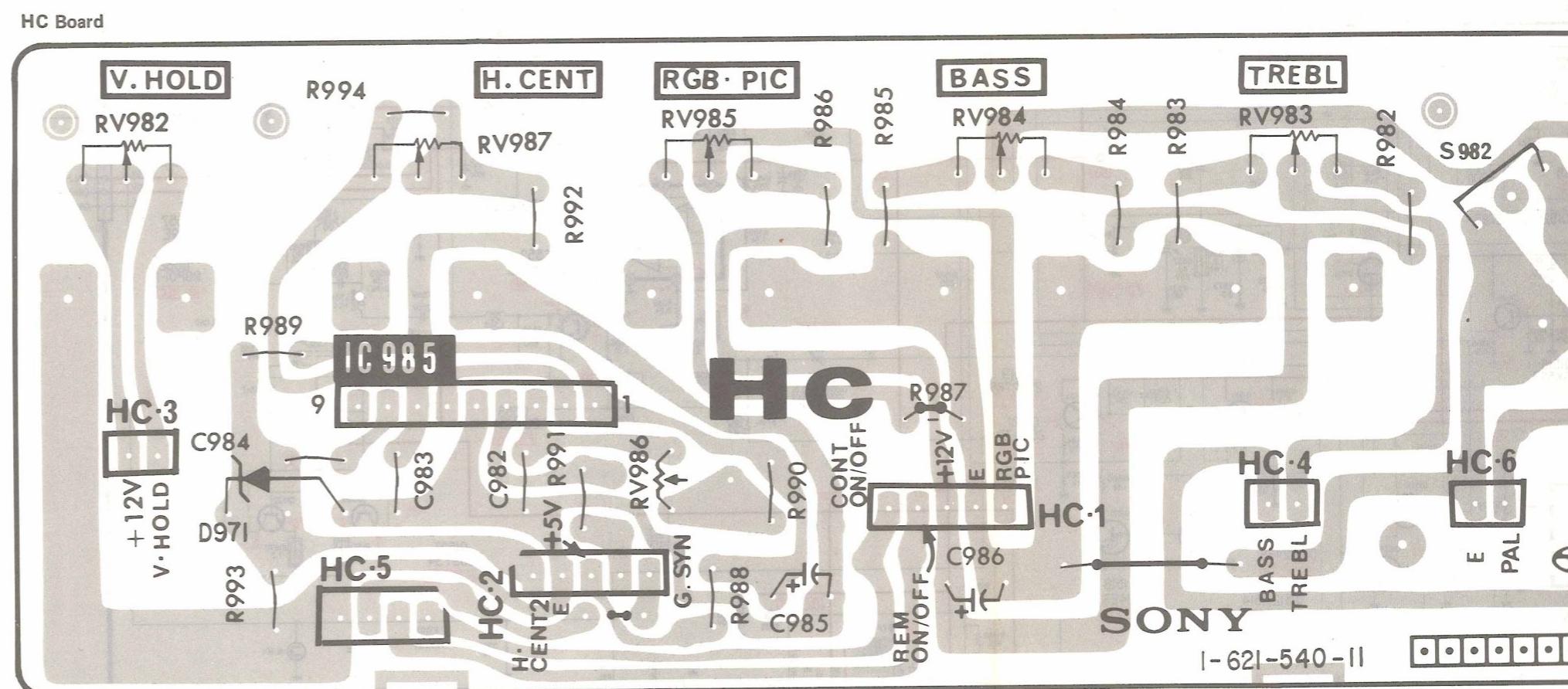
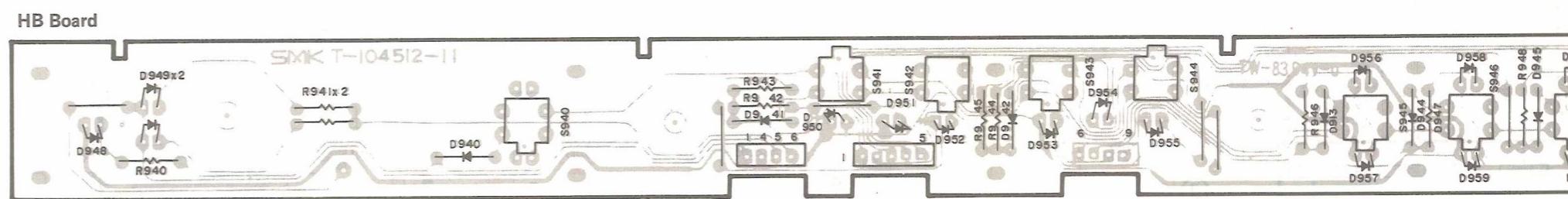
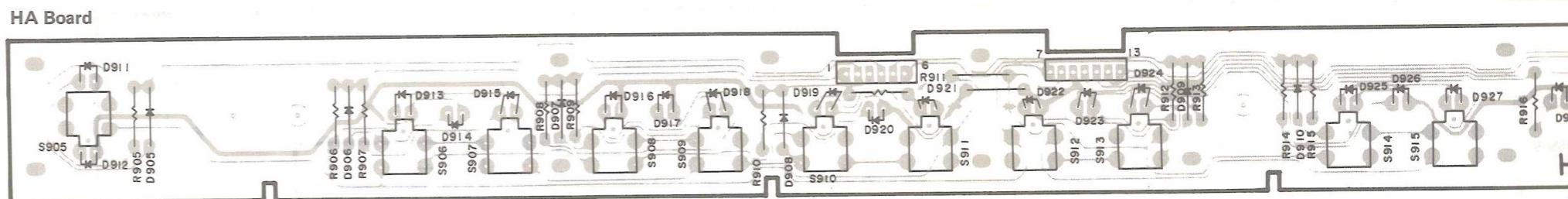
12 13 14

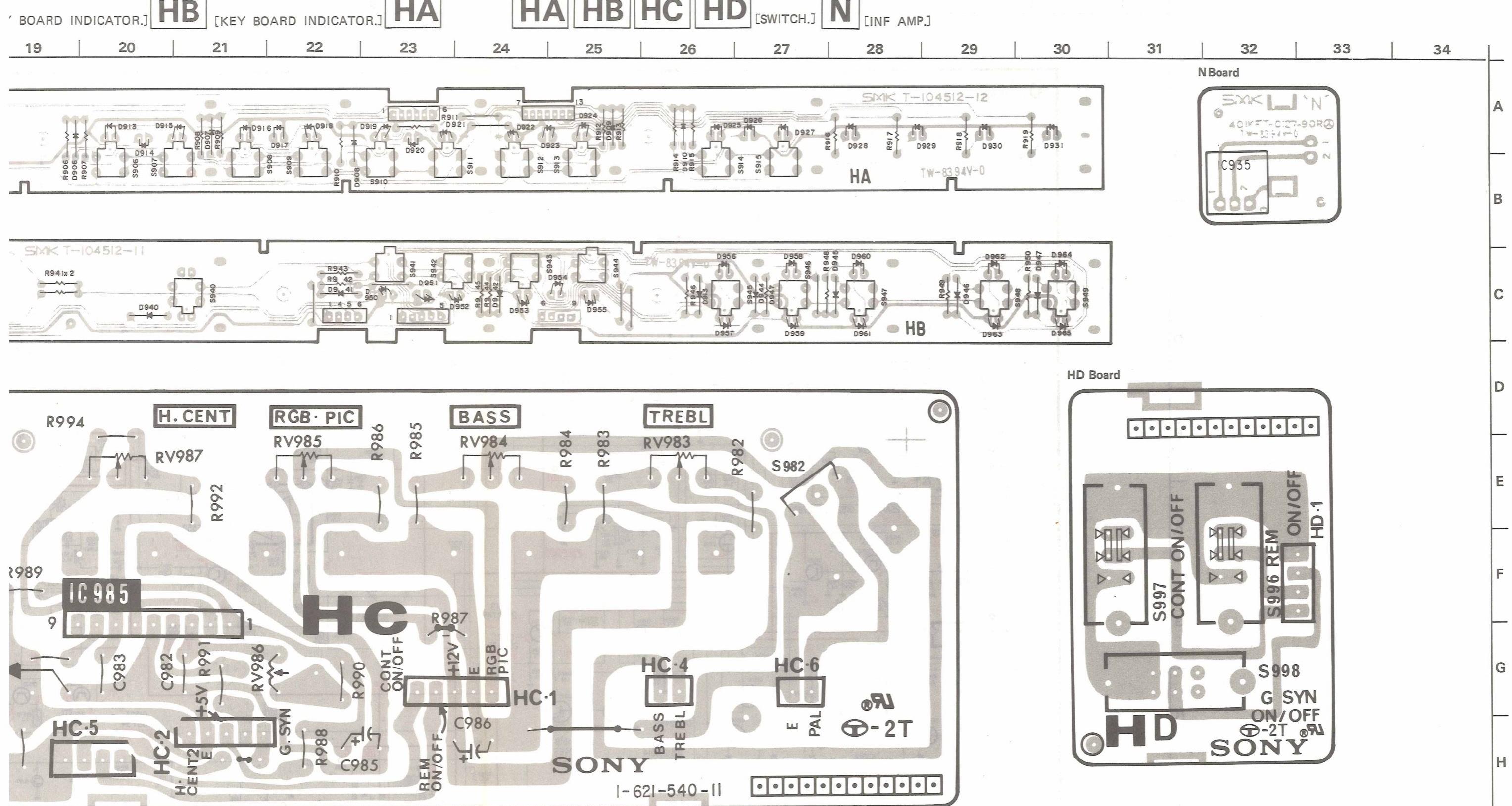
15 16

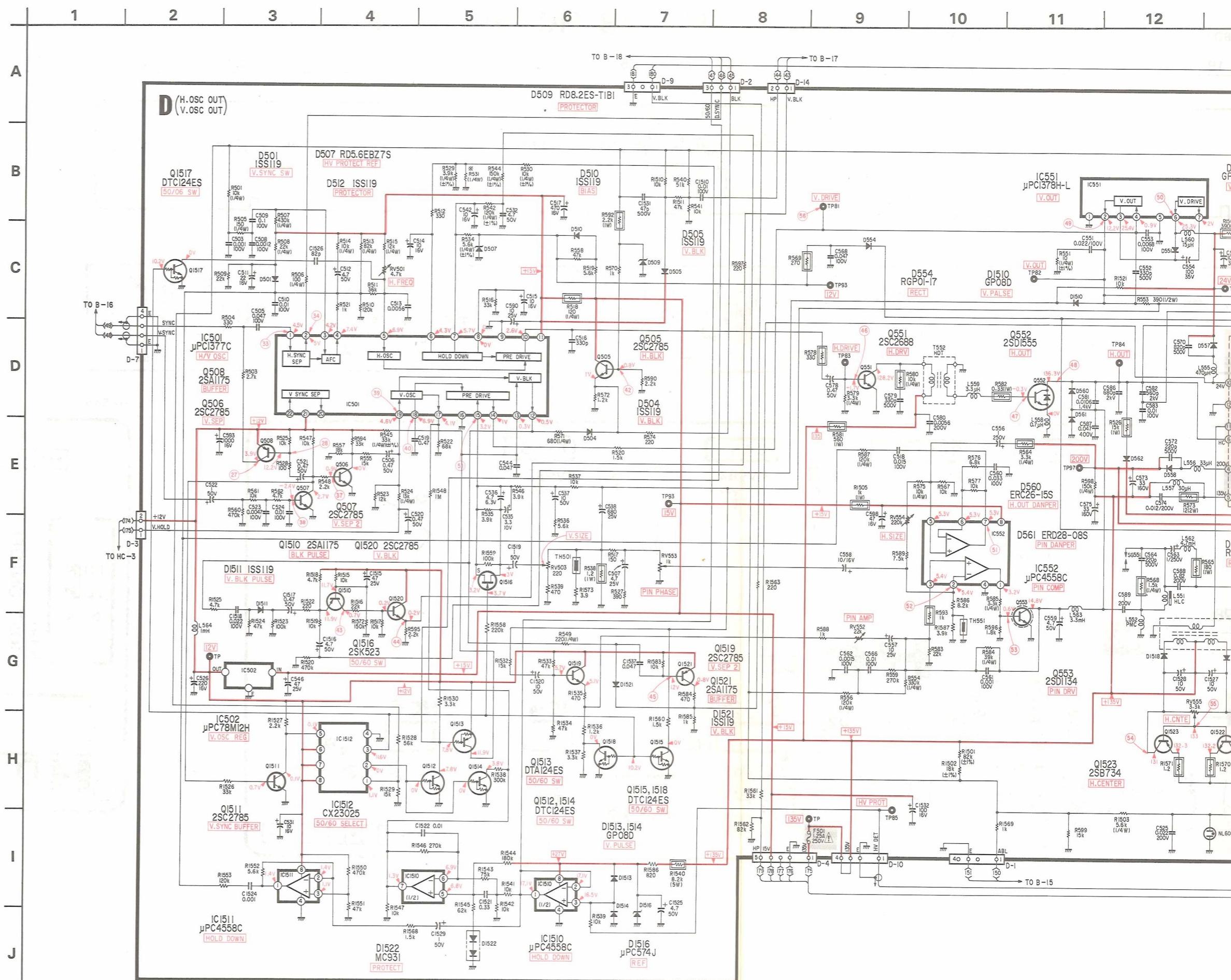
17 18 19 20 21 22 23 24 25 26 27

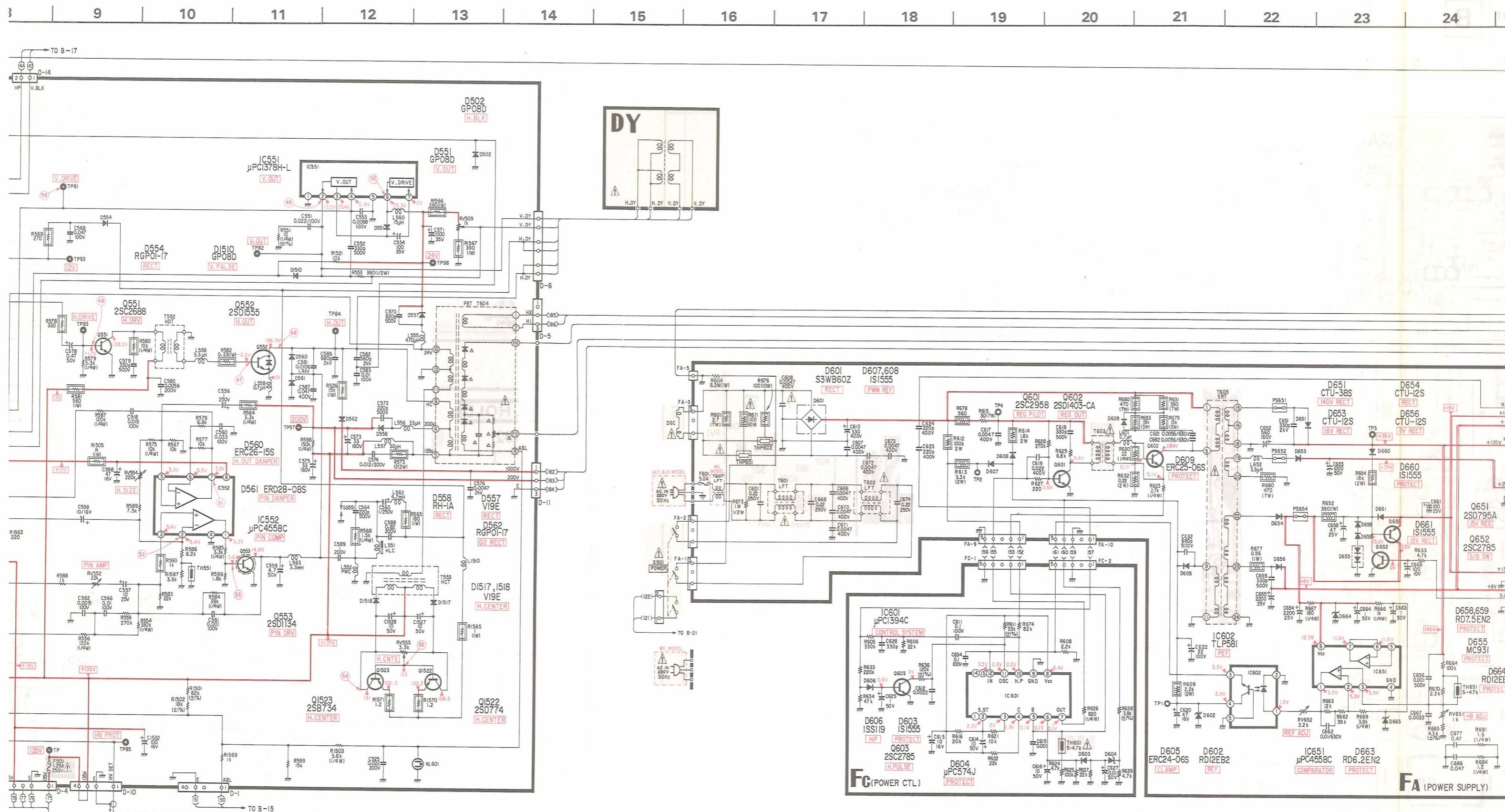


IC	Q	D	ADJ	TP
1301	I09	308		
1303	I10	343		
1302	I11	309		
321,322	I12	342		
310	I07	362	126	RV303
		124		
	I16	361	125	
		121		
393	I27			
IC302	I01			
I22,I23	I02			
I05	I03			
I14	I02			
I04	I03	344		
I03	I04	340		
	I17	345		
309	I17	339		
		341		
IC301	I08	305	I04	RV302
		11		
311	I18	334	I18	
407	I15	353	I15	
		307		
358,355				
357,354				
IC122	I47	457	354	CT443
		354		CT358
341	I06	392	I14	RV318
		306		
I13	I16	454	I16	
342	I10	351		
331	I10	401		
343	I18	401		
363,457				
460,403				
IC412				
405,315				
362	I02			
400				
455	I04			
458	I21			
361	I21			
324				
459,456				
IC401	I06			
401	I07			
402	I311			
451				
454				
453				
450				
461				
452				
372,373				
374,371				
442,444				
443,443				
IC	Q	D	ADJ	TP

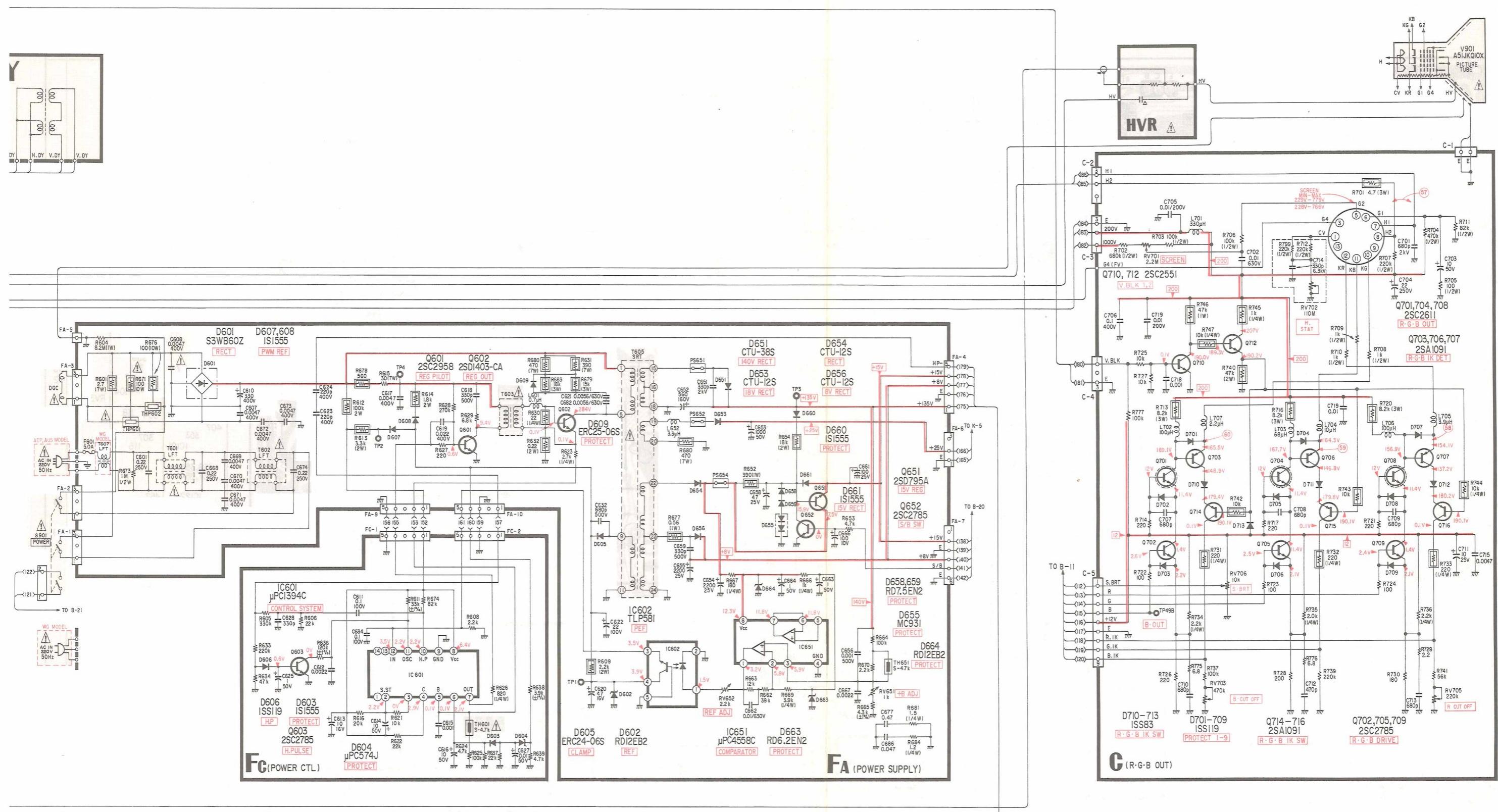








15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31



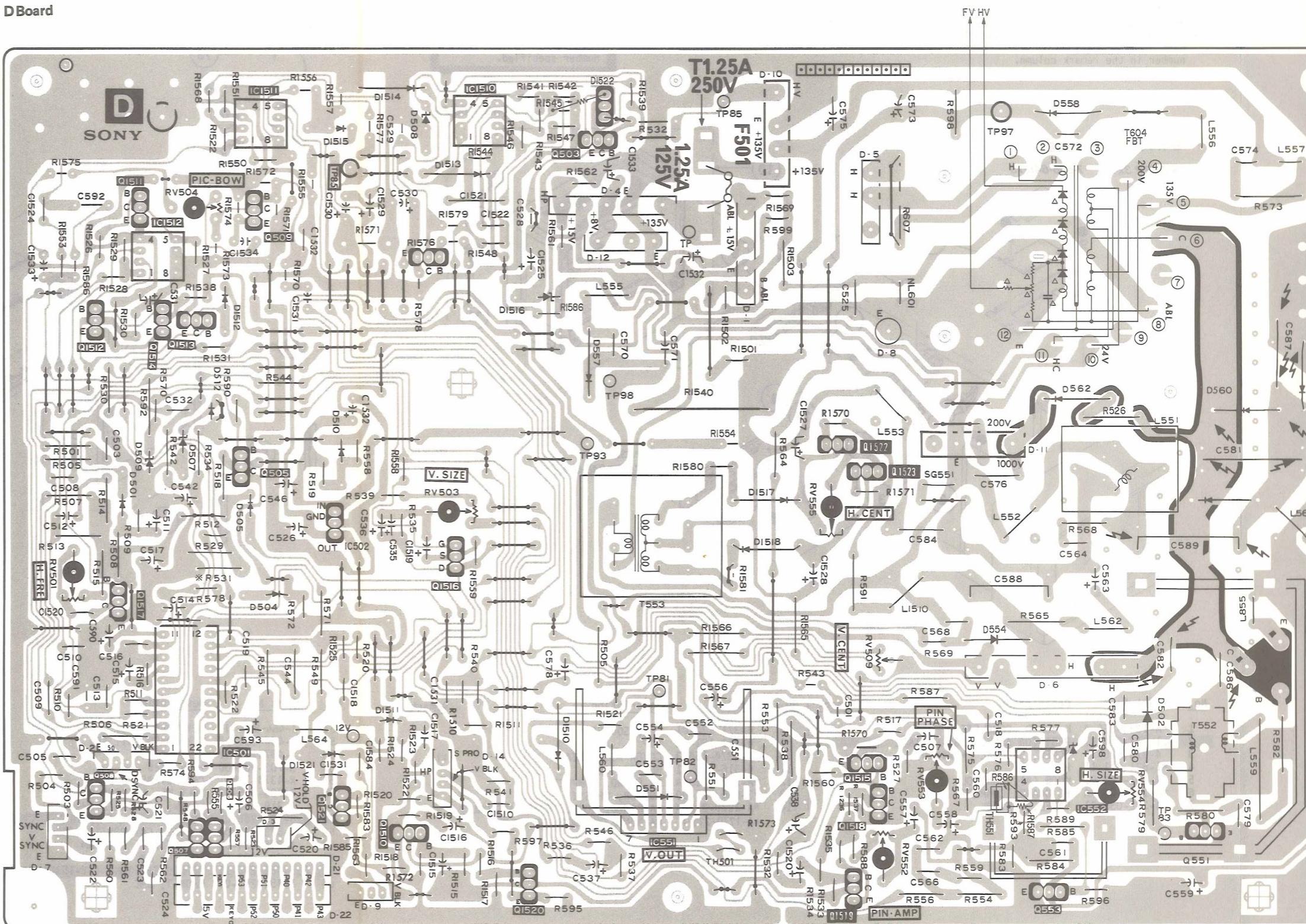
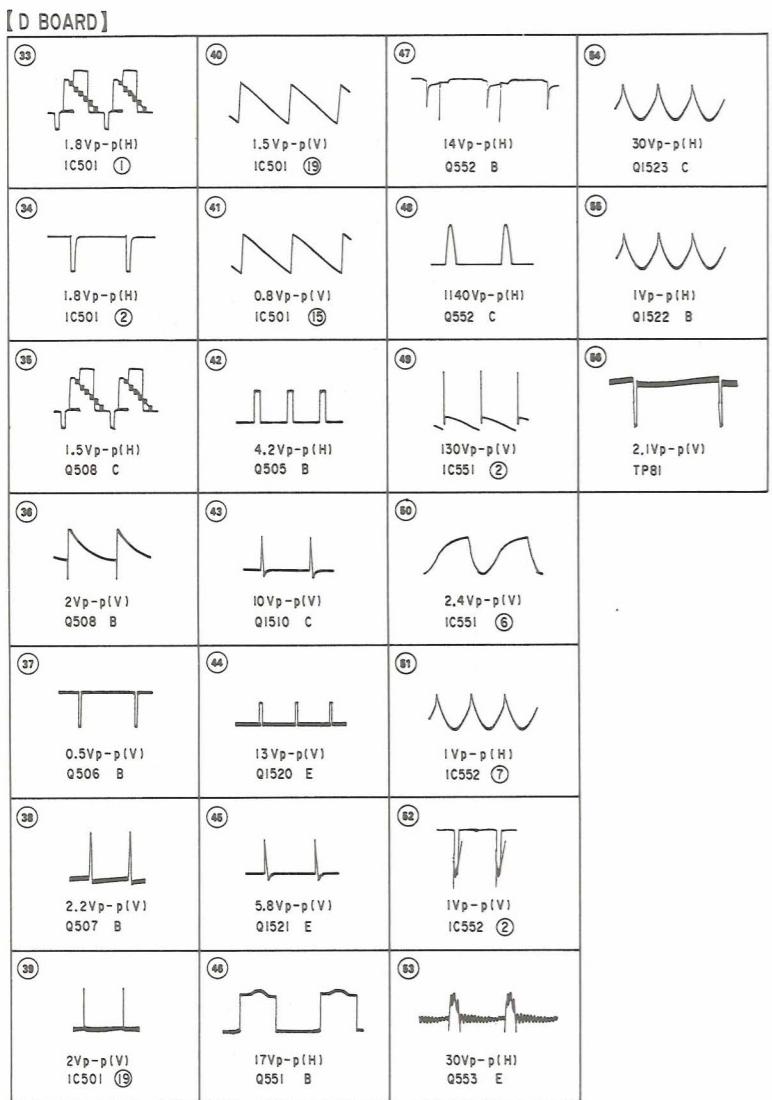
[SYNC SEP, H/V OSC, H/S OUT  
PIN CONP, PIN OUT, H/V CONP, BLK.]

D

D

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16

D Board



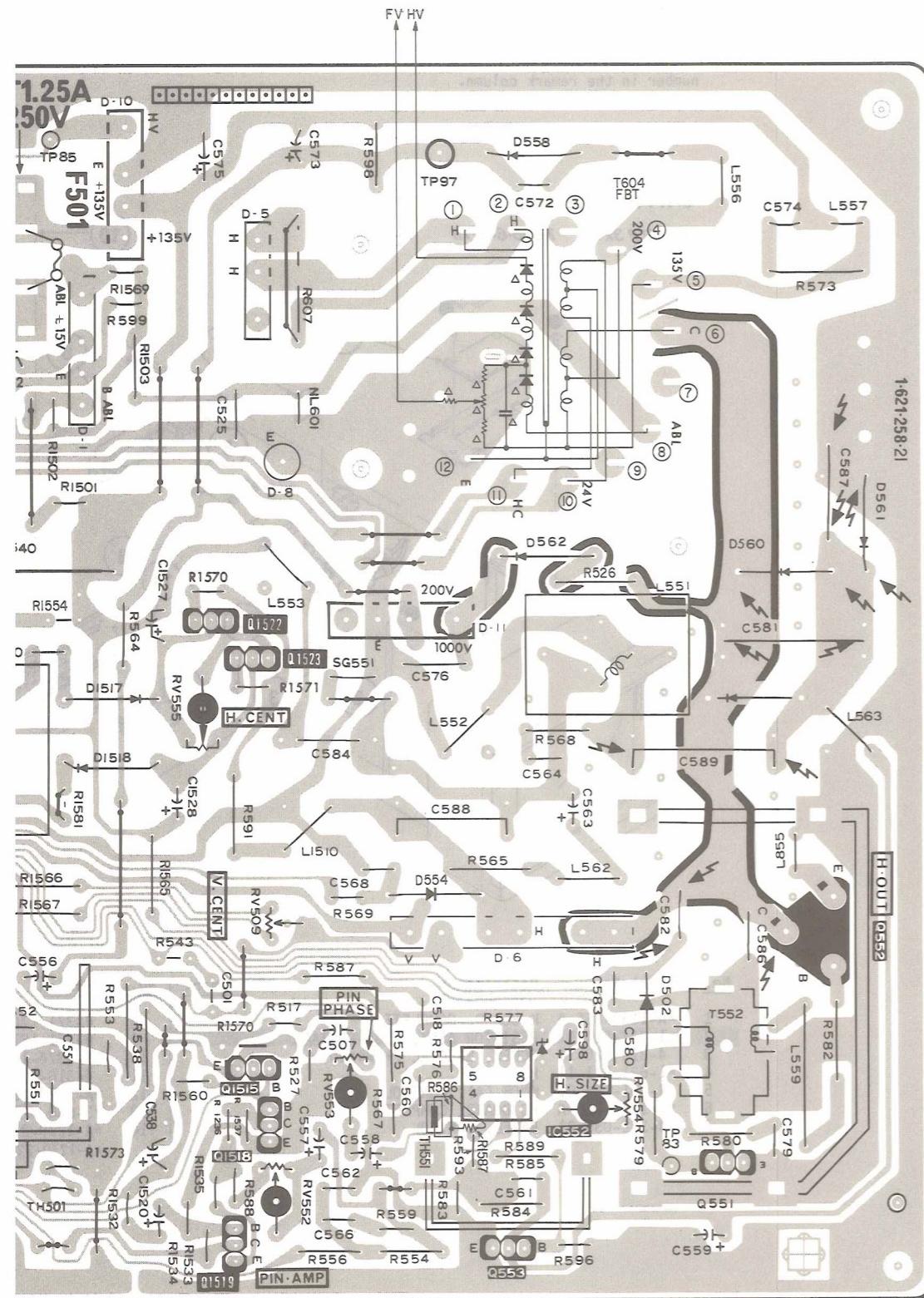
[RGB OUT]

C FA

FC

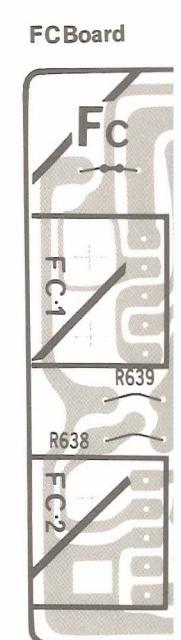
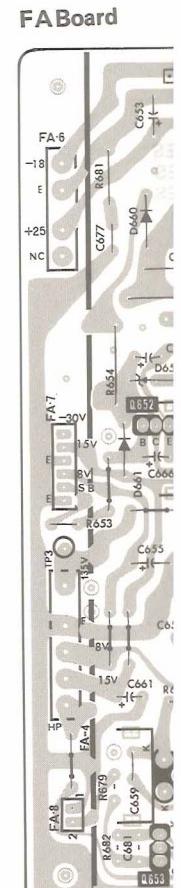
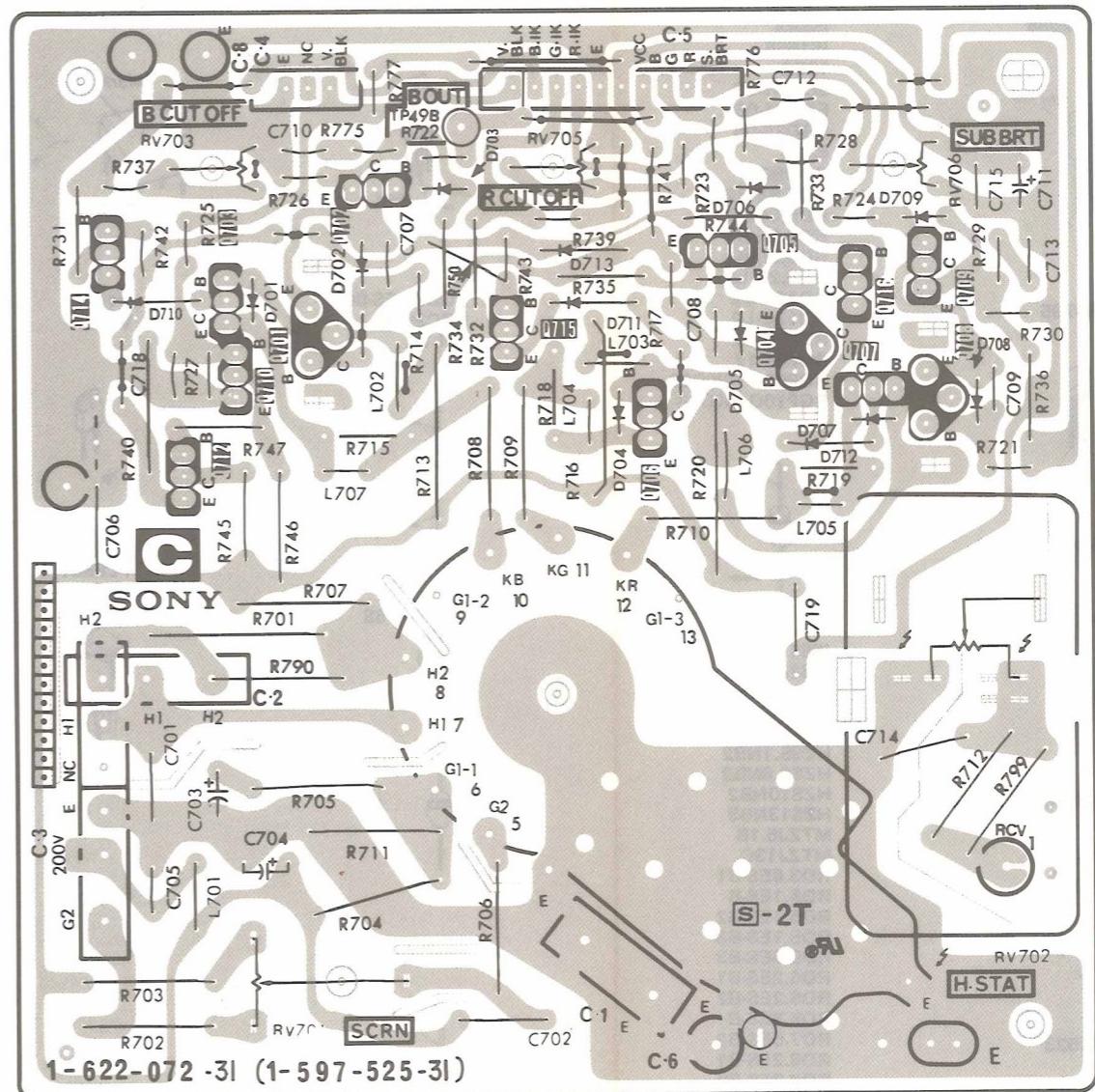
[POWER C]

12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27



IC , Q	D	ADJ	TP
IC1510 IC1511	1522 1514	558	97
IC1512	1513		85
IC1514 IC1515	1516		
IC1516 IC1517	557 561 560	507 510 509	98
IC1517	505 501 505	1517 RV555 RV503	93
IC1518	1518	501 505	
IC1519	1519 553	504 554 RV509 RV509	81
IC552 IC553	1511 1510 1521 508 1518 1521 IC551 551 1510 506 507	502 551 RV553 RV554 RV552 RV552	82
IC553	1520 553		83
IC , Q	D	ADJ	TP

CBoard



19

20

21

22

23

24

2

2

4

1

1

1

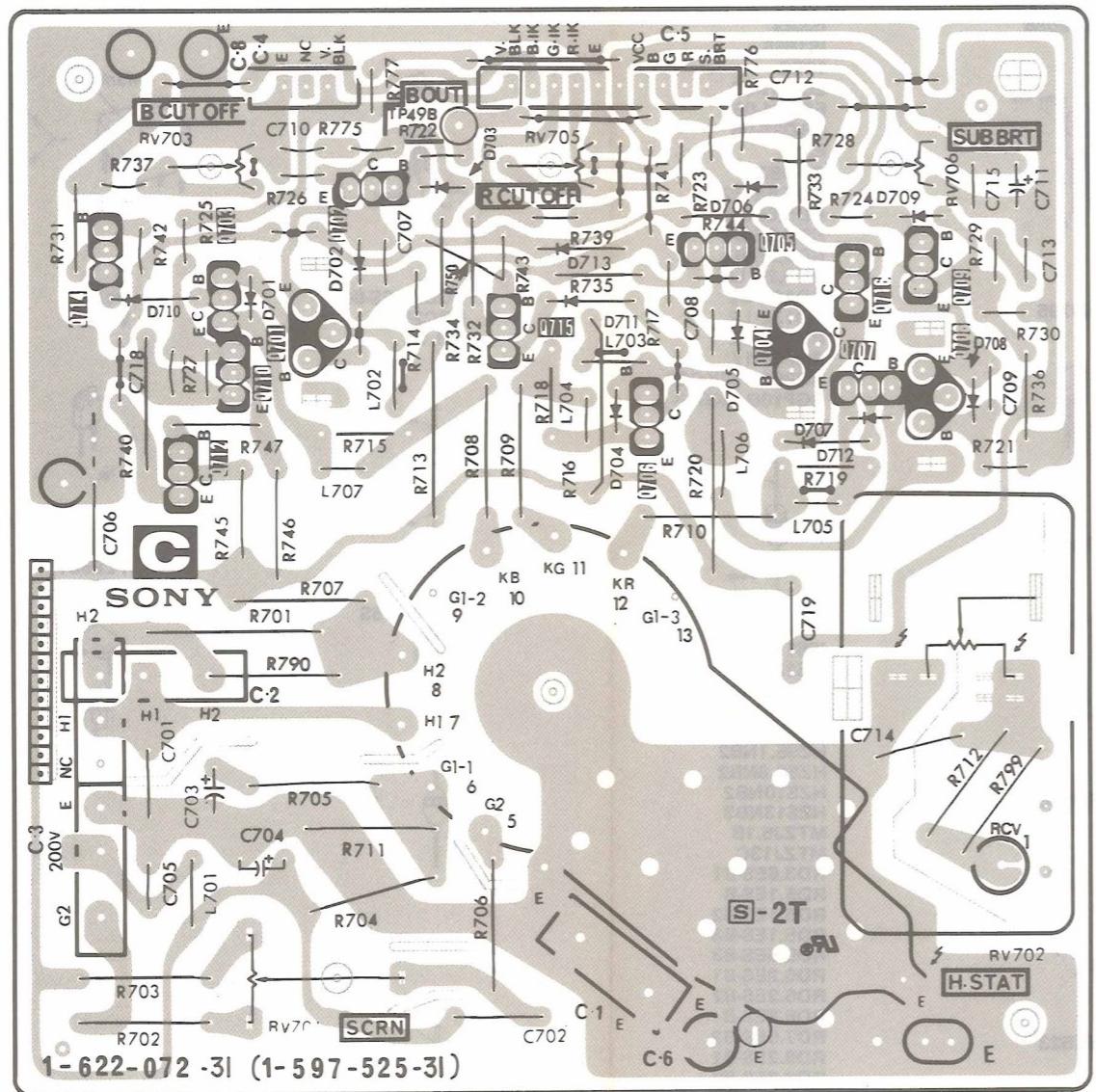
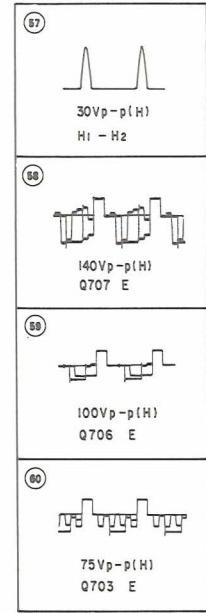
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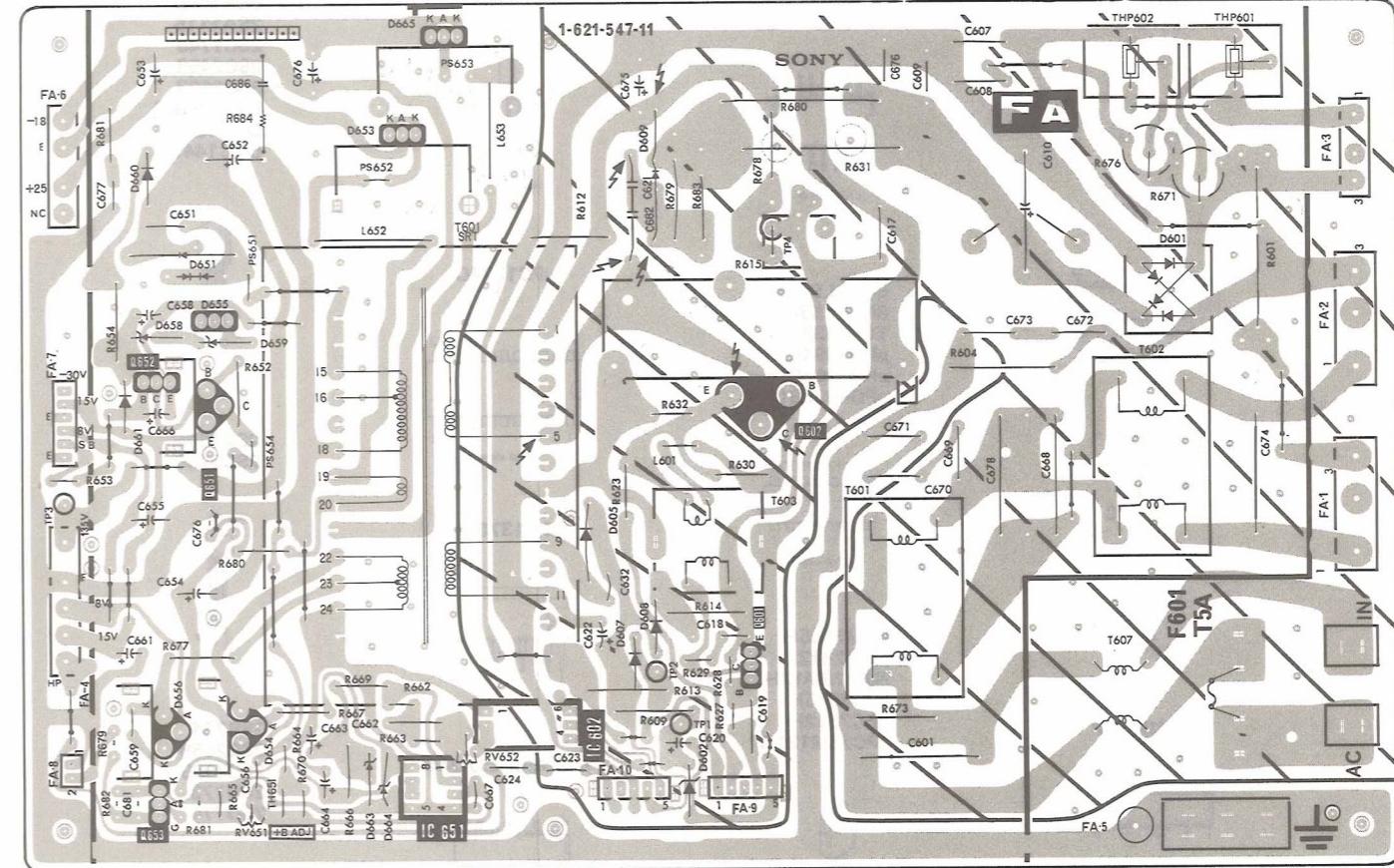
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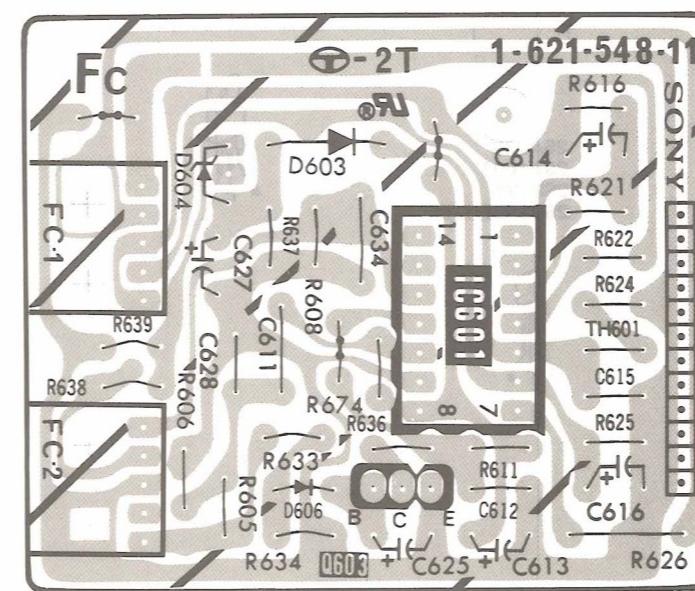
【C BOARD】



FABoard



FCBoard



5-5. SEMICONDUCTORS

BA236  
LA7910

1 2 3 4 5 6 7 8 9

MC14073BCP

14 8  
1 TOP VIEW 7

$\mu$ PC574J

anode cathode

2SA1048  
2SA1115  
2SC1740  
2SC2458  
2SC2603  
DTA124ES  
DTC124ES  
DTC144ES

2SC2611  
2SC2688

letter side

IN4148  
ISS83  
IS1555  
10E2  
EQA01-06  
ERC24-06S  
ERD28-08  
ES1F  
GP-08D  
RD5,6E-B2  
RD5,6EBZ7S  
RD6,2E-B1  
RD6,2E-B2  
RD6,2E-L2  
RD12E-B2  
RD13E-L2  
RD13E-B2  
RGPO1-17  
RGP01-17PKG23  
RGP10G-PKG23

CX-175

24 13  
1 12  
Top view

SN74LS09N  
SN74LS86N  
TC4073BP  
 $\mu$ PD1394C  
 $\mu$ PD4066BC  
 $\mu$ PD4073BC

$\mu$ PC1377C

22 12  
1 11  
Top view

2SA1175  
2SC2785

2SD795

E C B

cathode  
anode

CX23025  
HA17558  
NJM4558D  
 $\mu$ PC358C  
 $\mu$ PC4558C

8 7 6 5  
4 3 2 1  
Top view

NJM7805H  
NJM7812A  
NJM78M12H  
 $\mu$ PC7805H  
 $\mu$ PC7812H  
 $\mu$ PC78M12-1

$\mu$ PC1378H

14 13 12 11 10 9 8  
1 2 3 4 5 6 7  
Top view

$\mu$ PD750HCU-244

2SB734  
2SC2958  
2SC2959  
2SD773  
2SD774

2SD1403

E C B

ISS119  
ISS133  
ISS148  
HZS3.6NB1  
HZS5.1NB  
HZS5.1NB2  
HZS6.8NB2  
HZS10NB2  
HZS13NB3  
MTZJ5.1B  
MTZJ13C  
RD3.6ES-B1  
RD5.1ES-B  
RD5.1ES-B2  
RD5.1ES-B3  
RD5.6ES-B3  
RD6.2ES-B1  
RD6.2ES-B2  
RD6.8ES-B  
RD7.5ES-B2  
RD8.2ES-B1  
RD8.2ES-B2  
RD9.1ES-B3  
RD10ES-B2  
RD13ES-B3

CXA1001AP

42 40 35 30 25 22  
1 5 10 15 20 21  
Top view

TA7273P

letter side

$\mu$ PD8243C

2SC2334  
2SD1134

2SD1555

E C B

cathode  
anode

CXA1024S

48 25  
1 24  
Top view

TD62381

18 10  
1 9  
Top view

2SA933  
2SA1091  
2SB734  
2SC2551

2SK523

B C E

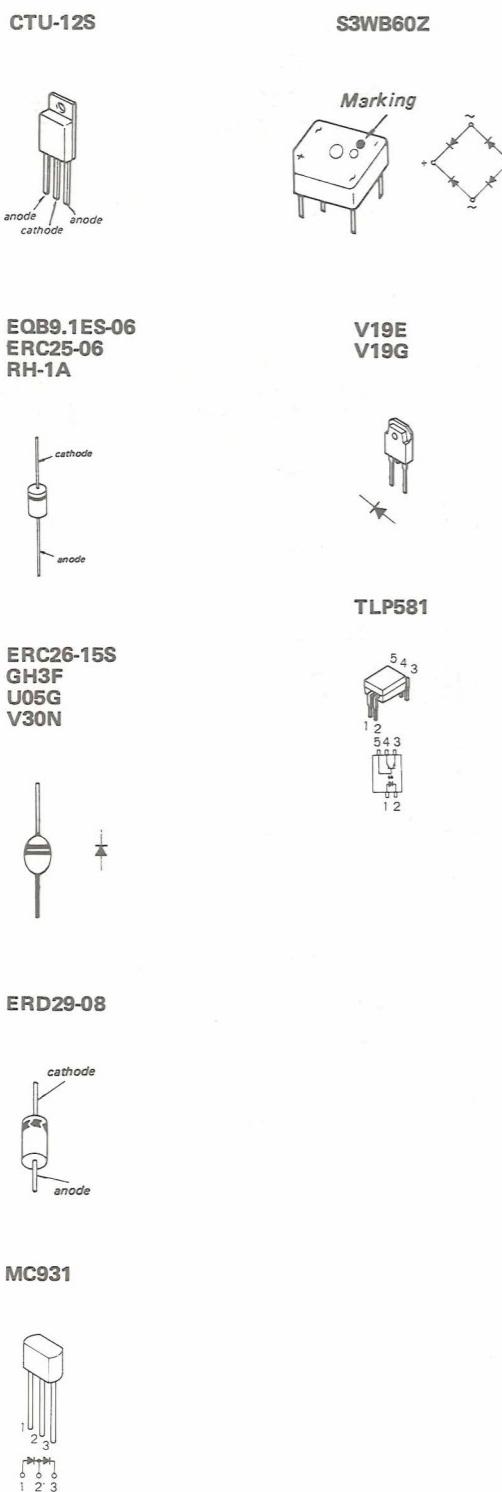
D S G

CXK1005P  
SN74LS138N  
TA7630P  
 $\mu$ PD4052BC  
 $\mu$ PD6326C

16 15 14 13 12 11 10 9  
1 2 3 4 5 6 7 8  
Top view

E C B

SECTION 6  
EXPLODED VIEWS



NOTE:

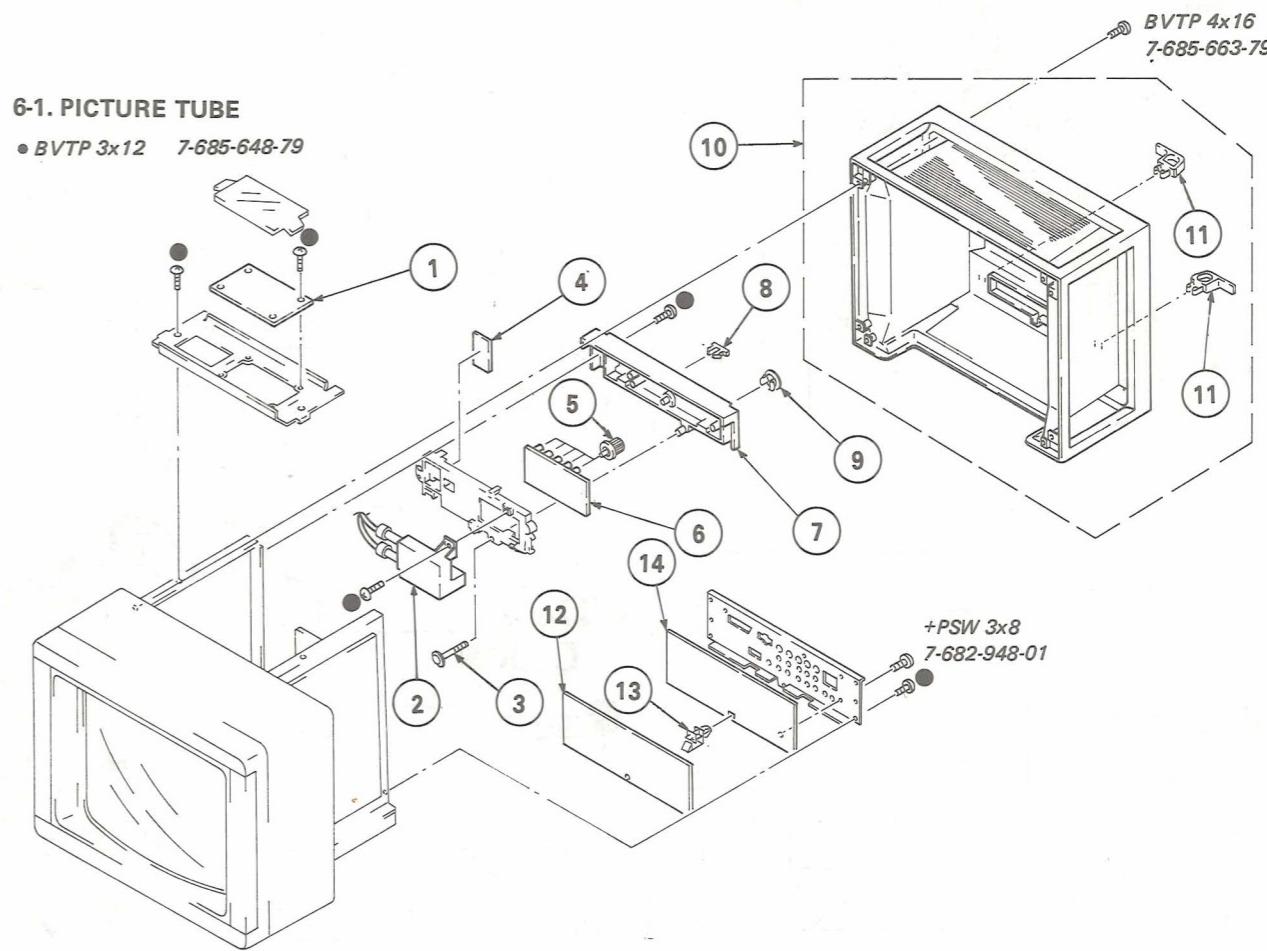
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

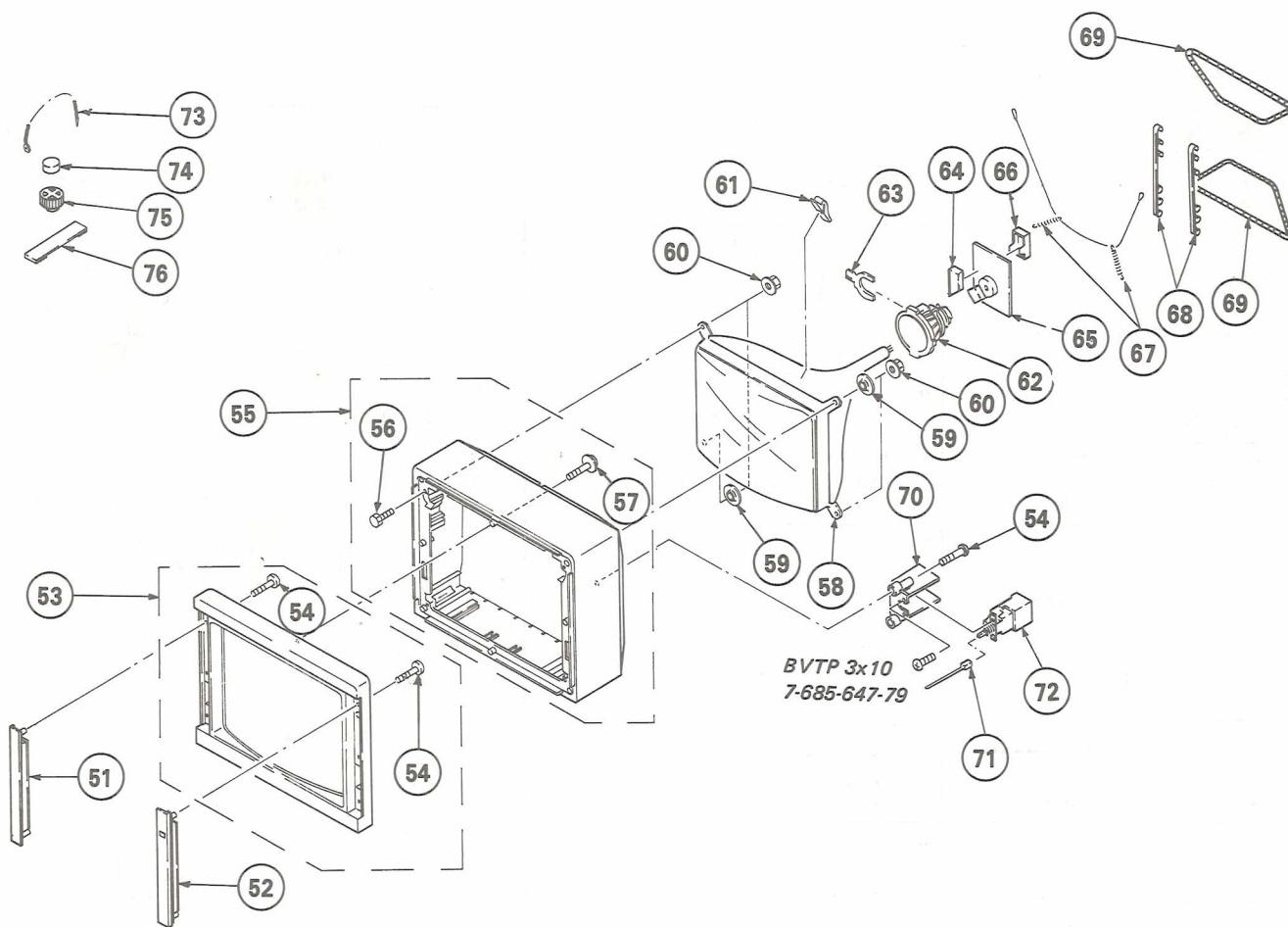
6-1. PICTURE TUBE

• BVTP 3x12 7-685-648-79



No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
1	*A-1389-865-A	K BOARD, COMPLETE		8	4-371-176-01	CAP, SQUARE	
2	▲1-237-614-11	RESISTOR ASSY, HIGH-VOLTAGE		9	4-371-181-01	CAP	
3	4-319-520-11	SCREW, SPECIAL (+PW4X30)		10	X-4374-166-3	COVER ASSY, REAR	11
4	*1-621-541-11	HD BOARD		11	4-316-003-21	HOLDER, CORD	
5	4-381-166-01	KNOB (A), CONTROL		12	*A-1270-213-A	QB BOARD, COMPLETE	
6	*A-1375-066-A	HC BOARD, COMPLETE		13	*3-680-721-00	HOLDER, CHASSIS	
7	4-382-035-21	PANEL, CONTROL		14	*A-1270-212-A	QA BOARD, COMPLETE (AEP,AUS ONLY)	
							*A-1270-223-A
							QA BOARD, COMPLETE (WG ONLY)

6-2. CHASSIS

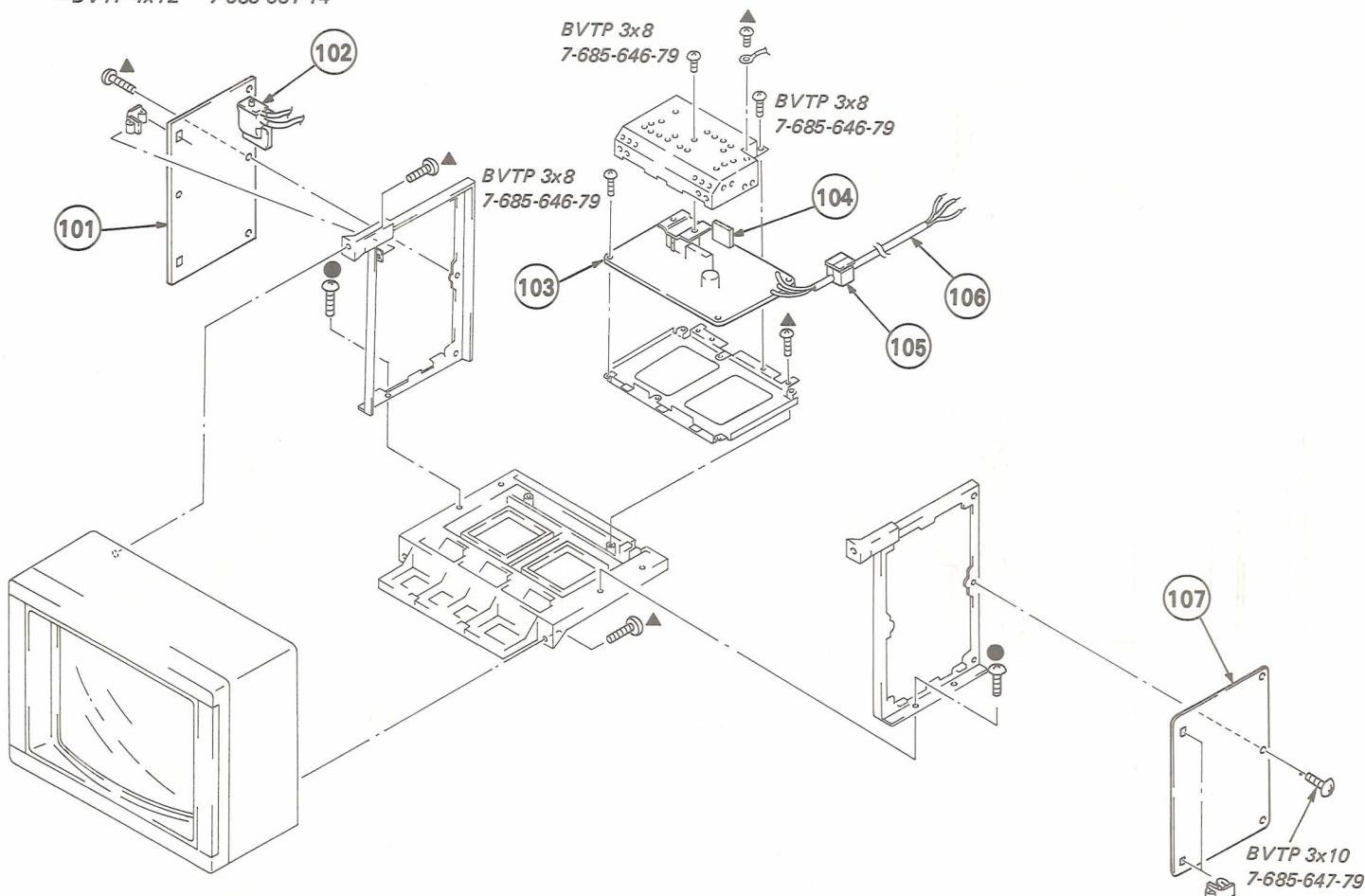


The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
51	1-464-803-11	KEY BOARD UNIT (A)		64	*4-379-167-01	COVER (MAIN), CV	
52	1-464-804-11	KEY BOARD UNIT (B)		65	*A-1330-801-A	C BOARD, COMPLETE	
53	X-4374-194-1	BEZEL ASSY		66	*4-379-160-01	COVER (REAR LID), CV	
54	3-703-083-00	+ BV 3X25		67	4-369-318-00	SPRING, TENSION	
55	X-4374-195-1	CABINET ASSY		68	*4-369-319-00	BAND, COIL	
56	3-703-025-12	BOLT M5, HEXAGON-HEAD		69	$\Delta$ 1-426-315-11	COIL, DEMAGNETIZATION	
57	4-319-520-11	SCREW, SPECIAL (+PW4X30)		70	*4-383-128-01	COVER, MAIN SWITCH	
58	$\Delta$ 8-736-955-05	PICTURE TUBE (A51JKQ10X)		71	*4-371-182-01	SHAFT	
59	4-373-615-02	WASHER, CRT POSITIONING		72	$\Delta$ 1-554-965-12	SWITCH, PUSH (AC POWER)(1 KEY)	
60	4-306-034-00	FLANGE NUT, (B) 5MM		73	4-308-870-00	CLIP, LEAD WIRE	
61	3-703-003-00	SPACER, DY		74	1-452-032-00	MAGNET, DISK; 10MM $\phi$	
62	$\Delta$ 1-451-295-11	DEFLECTION YOKE (SY-153E)		75	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM $\phi$	
63	1-452-277-00	MAGNET, BMC		76	X-4308-815-0	PERMALLOY ASSY, CONVERGENCE	

### 6-3. BACK COVER

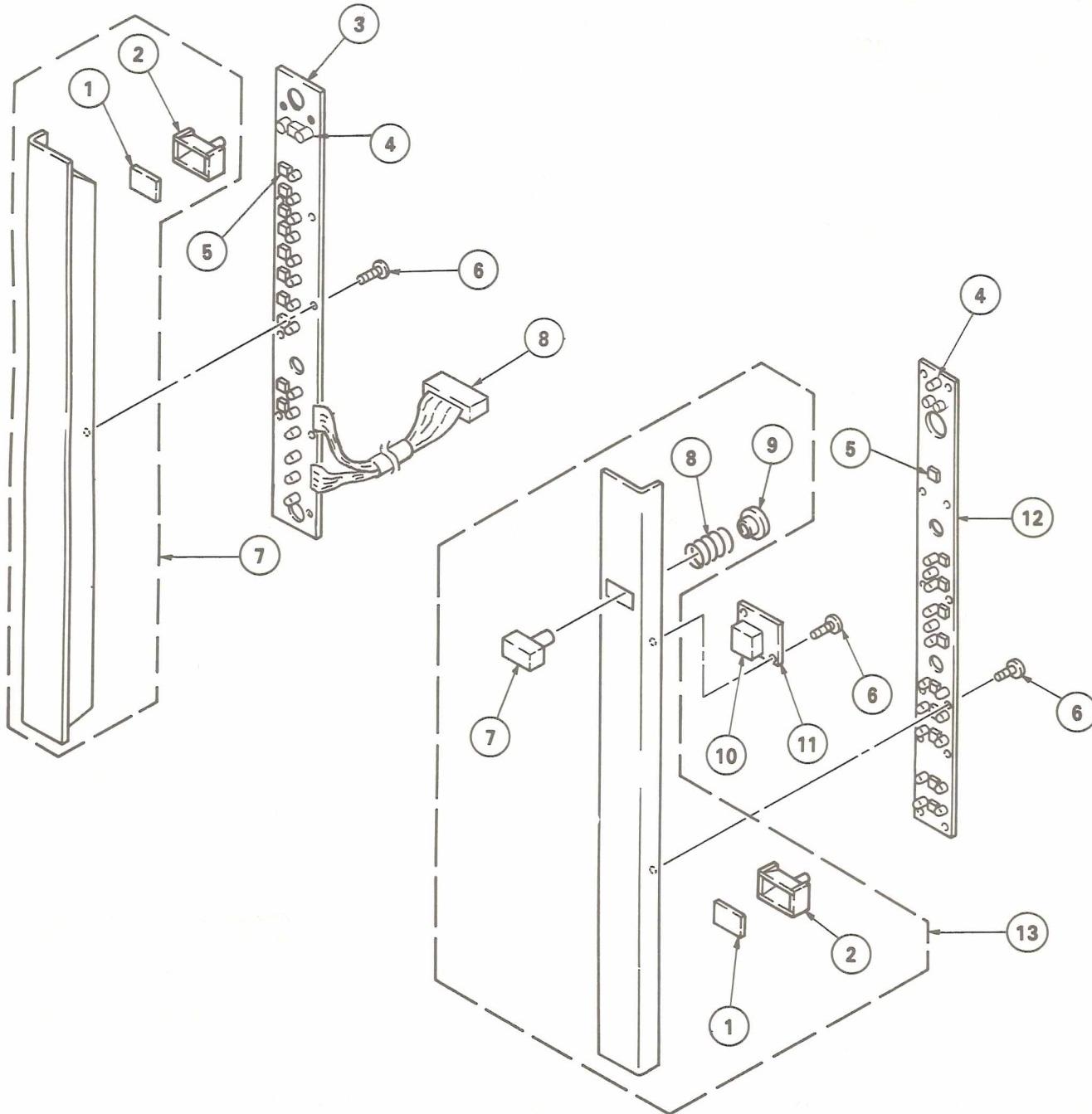
- BVTP 3x12 7-685-648-79
- ▲ BVTP 4x12 7-685-661-14



The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
101	*A-1345-708-A	D BOARD, COMPLETE		105	▲.*4-364-726-01	BUSHING, AC CORD	
102	▲.1-439-372-32	TRANSFORMER ASSY, FLYBACK		106	▲.1-534-820-13	POWER CORD (AEP, AUS ONLY)	
103	*A-1245-395-A	FA BOARD, COMPLETE (AEP, AUS ONLY)	104	104	▲.1-559-409-11	POWER CORD (WG ONLY)	
104	*A-1245-414-A	FA BOARD, COMPLETE (WG ONLY)		107	*A-1135-448-A	B BOARD, COMPLETE	
	*1-621-548-11	FC BOARD					

6-4. KEY BOARD UNIT



No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
1	9-990-892-01	ILLUMINATOR A		1	9-990-892-01	ILLUMINATOR A	
2	9-990-891-01	REFLECTOR A		2	9-990-891-01	REFLECTOR A	
3	*9-992-308-01	HA BOARD		4	9-990-895-01	SPACER	
4	9-990-895-01	SPACER		5	1-553-766-00	MT SWITCH (KEY BOARD SWITCH)	
5	1-553-766-00	MT SWITCH (KEY BOARD SWITCH)		6	9-990-894-01	TAPPING SCREW	
6	9-990-894-01	TAPPING SCREW		7	9-990-899-01	KEY TOP	
7	9-992-310-01	FRAME ASSY	1,2	8	9-990-902-01	COIL SPRING	
8	9-992-309-01	HARNESS		9	9-990-900-01	STOPPER	
				10	8-741-138-70	DETECTOR (BX1387)	
				11	*9-990-898-01	N BOARD	
				12	*9-992-401-01	HB BOARD	
				13	9-992-402-01	FRAME ASSY	

1,2,7,8,9

## SECTION 7

### ELECTRICAL PARTS LIST

B

## NOTE:

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS  
• MF :  $\mu\text{F}$ , PF :  $\mu\mu\text{F}$

- RESISTORS  
• All resistors are in ohms  
• F : nonflammable
- COILS  
• MMH : mH, UH :  $\mu\text{H}$

When indicating parts by reference number, please include the board name.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
	*A-1135-448-A	B BOARD, COMPLETE	*****	C138	1-123-307-00	ELECT	100MF 20%
		*****		C139	1-123-356-00	ELECT	10MF 20%
		CONNECTOR		C140	1-123-356-00	ELECT	10MF 20%
B1	*1-566-054-11	PIN, CONNECTOR 2P		C141	1-123-330-00	ELECT	22MF 20%
B2	*1-566-057-11	PIN, CONNECTOR 5P		C161	1-123-333-00	ELECT	100MF 20%
B4	*1-566-055-11	PIN, CONNECTOR 3P		C162	1-123-321-00	ELECT	220MF 20%
B5	*1-566-059-11	PIN, CONNECTOR 7P		C167	1-101-004-00	CERAMIC	0.01MF 50V
B6	*1-566-056-11	PIN, CONNECTOR 4P		C168	1-123-356-00	ELECT	10MF 20%
B7	*1-566-058-11	PIN, CONNECTOR 6P		C169	1-123-356-00	ELECT	10MF 20%
B8	*1-566-059-11	PIN, CONNECTOR 7P		C170	1-101-004-00	CERAMIC	0.01MF 50V
B9	*1-566-061-11	PIN, CONNECTOR 9P		C171	1-123-356-00	ELECT	10MF 20%
B10	*1-566-065-11	PIN, CONNECTOR 13P		C173	1-101-004-00	CERAMIC	0.01MF 50V
B11	*1-566-061-11	PIN, CONNECTOR 9P		C174	1-101-004-00	CERAMIC	0.01MF 50V
B13	*1-566-054-11	PIN, CONNECTOR 2P		C175	1-101-006-00	CERAMIC	0.047MF 50V
B14	*1-566-057-11	PIN, CONNECTOR 5P		C177	1-119-354-00	ELECT	330MF 10V
B15	*1-508-766-00	4P PLUG (M)		C178	1-101-004-00	CERAMIC	0.01MF 50V
B16	*1-566-056-11	PIN, CONNECTOR 4P		C179	1-101-006-00	CERAMIC	0.047MF 50V
B17	*1-566-054-11	PIN, CONNECTOR 2P		C180	1-123-307-00	ELECT	100MF 20%
B18	*1-566-055-11	PIN, CONNECTOR 3P		C181	1-123-332-00	ELECT	47MF 20%
B19	*1-566-057-11	PIN, CONNECTOR 5P		C182	1-101-006-00	CERAMIC	0.047MF 50V
B20	*1-566-058-11	PIN, CONNECTOR 6P		C183	1-119-352-00	ELECT	100MF 10V
B21	*1-566-054-11	PIN, CONNECTOR 2P		C185	1-123-307-00	ELECT	100MF 20%
		CAPACITOR		C186	1-123-356-00	ELECT	10MF 20%
C101	1-123-356-00	ELECT	10MF 20%	C187	1-123-330-00	ELECT	22MF 20%
C103	1-102-973-00	CERAMIC	100PF 5%	C301	1-123-333-00	ELECT	100MF 20%
C104	1-123-306-00	ELECT	47MF 20%	C302	1-101-888-00	CERAMIC	68PF 5%
C105	1-136-161-00	FILM	0.047MF 5%	C303	1-123-369-00	ELECT	4.7MF 20%
C106	1-102-963-00	CERAMIC	33PF 5%	C304	1-123-356-00	ELECT	10MF 20%
C107	1-102-963-00	CERAMIC	33PF 5%	C305	1-110-201-00	MYLAR	0.0033MF 5%
C108	1-102-978-00	CERAMIC	220PF 5%	C306	1-101-006-00	CERAMIC	0.047MF 50V
C110	1-123-333-00	ELECT	100MF 20%	C307	1-101-006-00	CERAMIC	0.047MF 50V
C112	1-123-335-00	ELECT	330MF 20%	C308	1-123-381-00	ELECT	2.2MF 20%
C113	1-123-318-00	ELECT	33MF 20%	C309	1-102-946-00	CERAMIC	9PF 0.5PF 50V
C114	1-123-333-00	ELECT	100MF 20%	C310	1-123-356-00	ELECT	10MF 20%
C115	1-123-333-00	ELECT	100MF 20%	C311	1-136-157-00	FILM	0.022MF 5%
C116	1-101-006-00	CERAMIC	0.047MF 50V	C312	1-136-157-00	FILM	0.022MF 5%
C118	1-101-004-00	CERAMIC	0.01MF 50V	C313	1-102-074-00	CERAMIC	0.001MF 10%
C119	1-123-330-00	ELECT	22MF 20%	C314	1-101-006-00	CERAMIC	0.047MF 50V
C120	1-123-330-00	ELECT	22MF 20%	C315	1-101-006-00	CERAMIC	0.047MF 50V
C121	1-123-356-00	ELECT	10MF 20%	C316	1-136-169-00	FILM	0.22MF 5%
C123	1-101-006-00	CERAMIC	0.047MF 50V	C317	1-102-074-00	CERAMIC	0.001MF 10%
C125	1-123-380-00	ELECT	1MF 20%	C322	1-101-006-00	CERAMIC	0.047MF 50V
C126	1-123-380-00	ELECT	1MF 20%	C323	1-124-464-11	ELECT	0.22MF 20%
C127	1-123-380-00	ELECT	1MF 20%	C324	1-124-464-11	ELECT	0.22MF 20%
C128	1-123-380-00	ELECT	1MF 20%	C325	1-123-333-00	ELECT	100MF 20%
C131	1-130-475-00	MYLAR	0.0022MF 5%	C326	1-124-464-11	ELECT	0.22MF 20%
C133	1-123-380-00	ELECT	1MF 20%	C327	1-102-111-00	CERAMIC	270PF 10% 50V
C134	1-123-380-00	ELECT	1MF 20%	C330	1-101-006-00	CERAMIC	0.047MF 50V
C135	1-123-381-00	ELECT	2.2MF 20%	C331	1-123-380-00	ELECT	1MF 20%
C136	1-101-006-00	CERAMIC	0.047MF 50V	C332	1-136-161-00	FILM	0.047MF 5%
C137	1-123-307-00	ELECT	100MF 20%	C333	1-102-959-00	CERAMIC	22PF 5%
			10V	C334	1-123-380-00	ELECT	1MF 20%
				C335	1-123-307-00	ELECT	100MF 20%

**B**

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark				
C336	1-123-318-00	ELECT	33MF	20%	16V	C1302	1-124-656-00	ELECT	2.2MF	20%	50V
C337	1-102-112-00	CERAMIC	330PF	10%	50V	C1304	1-123-356-00	ELECT	10MF	20%	16V
C341	1-123-380-00	ELECT	1MF	20%	50V	C1305	1-136-161-00	FILM	0.047MF	5%	50V
C346	1-123-380-00	ELECT	1MF	20%	50V	C1306	1-123-380-00	ELECT	1MF	20%	50V
C347	1-102-111-00	CERAMIC	270PF	10%	50V	C1316	1-123-356-00	ELECT	10MF	20%	25V
C350	1-123-356-00	ELECT	10MF	20%	16V	C1317	1-123-380-00	ELECT	1MF	20%	50V
C351	1-102-074-00	CERAMIC	0.001MF	10%	50V	C1318	1-123-380-00	ELECT	1MF	20%	50V
C352	1-101-361-00	CERAMIC	150PF	5%	50V	C1319	1-123-380-00	ELECT	1MF	20%	50V
C353	1-102-959-00	CERAMIC	22PF	5%	50V	C1320	1-123-382-00	ELECT	3.3MF	20%	50V
C354	1-123-380-00	ELECT	1MF	20%	50V	C1321	1-123-356-00	ELECT	10MF	20%	25V
C355	1-101-005-00	CERAMIC	0.022MF		50V	C1322	1-101-004-00	CERAMIC	0.01MF		50V
C381	1-102-074-00	CERAMIC	0.001MF	10%	50V	C1323	1-123-356-00	ELECT	10MF	20%	25V
C382	1-123-332-00	ELECT	47MF	20%	16V	C1324	1-123-332-00	ELECT	47MF	20%	16V
C402	1-136-167-00	FILM	0.15MF	5%	50V	C1325	1-101-006-00	CERAMIC	0.047MF		50V
C404	1-136-165-00	FILM	0.1MF	5%	50V	C1326	1-101-006-00	CERAMIC	0.047MF		50V
C405	1-102-806-00	CERAMIC	27PF	5%	50V	C1329	1-123-318-00	ELECT	33MF	20%	16V
C406	1-101-890-00	CERAMIC	75PF	5%	50V	C1333	1-136-153-00	FILM	0.01MF	5%	50V
C408	1-123-356-00	ELECT	10MF	20%	16V	C1334	1-101-004-00	CERAMIC	0.01MF		50V
C410	1-123-356-00	ELECT	10MF	20%	50V	C1336	1-110-203-00	MYLAR	0.0047MF	5%	50V
C411	1-136-161-00	FILM	0.047MF	5%	50V	C1338	1-136-161-00	FILM	0.047MF	5%	50V
C412	1-102-119-00	CERAMIC	0.0015MF	10%	50V	C1339	1-136-153-00	FILM	0.01MF	5%	50V
C413	1-123-380-00	ELECT	1MF	20%	50V	C1341	1-110-203-00	MYLAR	0.0047MF	5%	50V
C414	1-136-173-00	FILM	0.47MF	5%	50V	C1343	1-136-161-00	FILM	0.047MF	5%	50V
C415	1-101-005-00	CERAMIC	0.022MF		50V	C1344	1-136-153-00	FILM	0.01MF	5%	50V
C416	1-123-356-00	ELECT	10MF	20%	16V	C1346	1-110-203-00	MYLAR	0.0047MF	5%	50V
C417	1-123-356-00	ELECT	10MF	20%	16V	C1351	1-123-356-00	ELECT	10MF	20%	25V
C418	1-136-161-00	FILM	0.047MF	5%	50V	C1352	1-123-332-00	ELECT	47MF	20%	16V
C419	1-123-380-00	ELECT	1MF	20%	50V	C1353	1-102-973-00	CERAMIC	100PF	5%	50V
C420	1-101-890-00	CERAMIC	75PF	5%	50V	C1354	1-136-157-00	FILM	0.022MF	5%	50V
C421	1-102-806-00	CERAMIC	27PF	5%	50V	C1355	1-123-380-00	ELECT	1MF	20%	50V
C423	1-136-165-00	FILM	0.1MF	5%	50V	C1356	1-136-165-00	FILM	0.1MF	5%	50V
C424	1-123-356-00	ELECT	10MF	20%	16V	C1357	1-123-380-00	ELECT	1MF	20%	50V
C425	1-102-888-00	CERAMIC	150PF	5%	50V	C1358	1-123-369-00	ELECT	4.7MF	20%	50V
C426	1-101-004-00	CERAMIC	0.01MF		50V	C1359	1-102-820-00	CERAMIC	330PF	5%	50V
C427	1-101-006-00	CERAMIC	0.047MF		50V	C1360	1-102-820-00	CERAMIC	330PF	5%	50V
C428	1-102-121-00	CERAMIC	0.0022MF	10%	50V	C1361	1-102-129-00	CERAMIC	0.01MF	10%	50V
C429	1-136-161-00	FILM	0.047MF	5%	50V	C1362	1-130-475-00	MYLAR	0.0022MF	5%	50V
C430	1-102-971-00	CERAMIC	82PF	5%	50V	C1390	1-101-004-00	CERAMIC	0.01MF		50V
C434	1-102-112-00	CERAMIC	330PF	10%	50V	C1391	1-123-356-00	ELECT	10MF	20%	16V
C452	1-136-169-00	FILM	0.22MF	5%	50V	C1392	1-123-356-00	ELECT	10MF	20%	16V
C453	1-123-333-00	ELECT	100MF	20%	16V	C1393	1-101-004-00	CERAMIC	0.01MF		50V
C454	1-102-963-00	CERAMIC	33PF	5%	50V						
C466	1-102-115-00	CERAMIC	560PF	10%	50V						
C470	1-123-333-00	ELECT	100MF	20%	16V						
C472	1-123-356-00	ELECT	10MF	20%	16V	CT358	1-141-181-11	CAP, TRIMMER			
C473	1-101-361-00	CERAMIC	150PF	5%	50V	CT443	1-141-181-11	CAP, TRIMMER			
C474	1-102-662-00	CERAMIC	7PF	0.5PF	50V						
C475	1-102-662-00	CERAMIC	7PF	0.5PF	50V						
C476	1-102-662-00	CERAMIC	7PF	0.5PF	50V	D101	8-719-109-97	DIODE RD6.8ES-B2			
C477	1-102-662-00	CERAMIC	7PF	0.5PF	50V	D102	8-719-109-97	DIODE RD6.8ES-B2			
C481	1-108-614-91	MYLAR	0.001MF	10%	100V	D103	8-719-911-19	DIODE 1SS119			
C482	1-102-820-00	CERAMIC	330PF	5%	50V	D104	8-719-109-68	DIODE RD3.6ES-B1			
C484	1-136-165-00	FILM	0.1MF		50V	D108	8-719-911-19	DIODE 1SS119			
C1301	1-101-004-00	CERAMIC	0.01MF		50V						



Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
D110	8-719-911-19	DIODE 1SS119		IC106	8-759-207-07	IC TD62381P	
D111	8-719-110-08	DIODE RD8.2ES-B2		IC107	8-759-207-07	IC TD62381P	
D112	8-719-911-19	DIODE 1SS119		IC110	8-759-140-66	IC UPD4066BC	
D113	8-719-911-19	DIODE 1SS119		IC121	8-759-171-05	IC UPC7805H	
D114	8-719-911-19	DIODE 1SS119		*4-363-146-00		HEAT SINK, V.OUT; IC121	
D115	8-719-109-83	DIODE RD5.1ES-B		IC122	8-759-700-06	IC NJM7812B	
D116	8-719-109-90	DIODE RD5.6ES-B3		*4-323-833-00		HEAT SINK, PIN OUT; IC122	
D117	8-719-911-19	DIODE 1SS119		IC301	8-752-030-86	IC CXA1001AP	
D118	8-719-911-19	DIODE 1SS119		IC302	8-752-030-31	IC CXA1024S	
D120	8-719-911-19	DIODE 1SS119		IC311	8-759-240-73	IC TC4073BP	
D121	8-719-911-19	DIODE 1SS119		IC401	8-751-750-00	IC CX175	
D123	8-719-911-19	DIODE 1SS119		IC411	8-759-135-80	IC UPC358C	
D124	8-719-911-19	DIODE 1SS119		IC412	8-759-140-66	IC UPD4066BC	
D126	8-719-109-95	DIODE RD6.8ES-B		<u>COIL</u>			
D127	8-719-109-95	DIODE RD6.8ES-B		L101	1-408-424-00	MICRO INDUCTOR 180UH	
D305	8-719-911-19	DIODE 1SS119		L104	1-408-424-00	MICRO INDUCTOR 180UH	
D306	8-719-911-19	DIODE 1SS119		L105	1-408-424-00	MICRO INDUCTOR 180UH	
D307	8-719-911-19	DIODE 1SS119		L161	1-407-364-00	COIL, SPOOK CHOKE 3.3UH	
D308	8-719-911-19	DIODE 1SS119		L333	1-408-416-00	MICRO INDUCTOR 39UH	
D309	8-719-911-19	DIODE 1SS119		L337	1-408-160-00	MICRO INDUCTOR 15MMH	
D334	8-719-110-15	DIODE RD10ES-B		L405	1-404-496-00	COIL	
D335	8-719-911-19	DIODE 1SS119		L406	1-408-411-00	MICRO INDUCTOR 15UH	
D339	8-719-911-19	DIODE 1SS119		L420	1-408-411-00	MICRO INDUCTOR 15UH	
D340	8-719-911-19	DIODE 1SS119		L421	1-404-496-00	COIL	
D341	8-719-911-19	DIODE 1SS119		L430	1-408-245-00	MICRO INDUCTOR 22MMH	
D342	8-719-110-15	DIODE RD10ES-B		L431	1-408-414-00	MICRO INDUCTOR 27UH	
D343	8-719-110-15	DIODE RD10ES-B		L432	1-408-415-00	MICRO INDUCTOR 33UH	
D344	8-719-110-15	DIODE RD10ES-B		L435	1-408-408-00	MICRO INDUCTOR 8.2UH	
D345	8-719-911-19	DIODE 1SS119		L451	1-404-495-00	COIL	
D351	8-719-911-19	DIODE 1SS119		L452	1-404-495-00	COIL	
D354	8-719-911-19	DIODE 1SS119		L455	1-408-163-00	MICRO INDUCTOR 5.6MMH	
D361	8-719-911-19	DIODE 1SS119		<u>IC LINK</u>			
D362	8-719-911-19	DIODE 1SS119		PS1	1-532-605-00	LINK, IC	
D392	8-719-911-19	DIODE 1SS119		PS2	1-532-637-00	LINK, IC	
<u>TRANSISTOR</u>							
D401	8-719-911-19	DIODE 1SS119		Q101	8-729-117-54	TRANSISTOR 2SA1175	
D442	8-719-911-19	DIODE 1SS119		Q102	8-729-117-54	TRANSISTOR 2SA1175	
D443	8-719-911-19	DIODE 1SS119		Q103	8-729-178-54	TRANSISTOR 2SC2785	
D444	8-719-911-19	DIODE 1SS119		Q104	8-729-178-54	TRANSISTOR 2SC2785	
D445	8-719-911-19	DIODE 1SS119		Q105	8-729-178-54	TRANSISTOR 2SC2785	
<u>DELAY LINE</u>							
DL301	1-415-122-31	DELAY LINE, 1H (PAL)		Q107	8-729-900-36	TRANSISTOR DTC124ES	
DL401	1-415-380-11	DELAY LINE, Y		Q108	8-729-178-54	TRANSISTOR 2SC2785	
<u>IC</u>							
IC101	8-759-113-02	IC UPD7508HCU-244		Q112	8-729-178-54	TRANSISTOR 2SC2785	
IC102	8-752-321-18	IC CKX1005P		Q113	8-729-178-54	TRANSISTOR 2SC2785	
IC103	8-759-102-28	IC UPD6326C		Q114	8-729-178-54	TRANSISTOR 2SC2785	
IC104	8-759-182-43	IC UPD8243C		Q115	8-729-900-36	TRANSISTOR DTC124ES	
				Q116	8-729-117-54	TRANSISTOR 2SA1175	

**B**

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
Q117	8-729-178-54	TRANSISTOR 2SC2785		Q1302	8-729-178-54	TRANSISTOR 2SC2785	
Q118	8-729-117-54	TRANSISTOR 2SA1175		Q1303	8-729-117-54	TRANSISTOR 2SA1175	
Q119	8-729-117-54	TRANSISTOR 2SA1175					
Q121	8-729-133-42	TRANSISTOR 2SC2334-L					
*4-363-146-00 HEAT SINK, V.OUT; Q121							
Q122	8-729-117-54	TRANSISTOR 2SA1175		R101	1-249-395-11	CARBON	15 5% 1/6W
Q123	8-729-178-54	TRANSISTOR 2SC2785		R102	1-249-395-11	CARBON	15 5% 1/6W
Q301	8-729-117-54	TRANSISTOR 2SA1175		R103	1-249-441-11	CARBON	100K 5% 1/6W
Q309	8-729-178-54	TRANSISTOR 2SC2785		R104	1-249-441-11	CARBON	100K 5% 1/6W
Q310	8-729-117-54	TRANSISTOR 2SA1175		R105	1-247-805-00	CARBON	82 5% 1/6W
Q311	8-729-177-43	TRANSISTOR 2SD774		R106	1-249-413-11	CARBON	470 5% 1/6W
Q315	8-729-178-54	TRANSISTOR 2SC2785		R107	1-249-411-11	CARBON	330 5% 1/6W
Q316	8-729-178-54	TRANSISTOR 2SC2785		R108	1-249-441-11	CARBON	100K 5% 1/6W
Q321	8-729-178-54	TRANSISTOR 2SC2785		R109	1-249-433-11	CARBON	22K 5% 1/6W
Q322	8-729-178-54	TRANSISTOR 2SC2785		R110	1-249-465-11	CARBON	47K 5% 1/4W
Q324	8-729-178-54	TRANSISTOR 2SC2785		R111	1-249-437-11	CARBON	47K 5% 1/6W
Q331	8-729-178-54	TRANSISTOR 2SC2785		R114	1-249-437-11	CARBON	47K 5% 1/6W
Q341	8-729-178-54	TRANSISTOR 2SC2785		R116	1-249-414-11	CARBON	560 5% 1/6W
Q342	8-729-178-54	TRANSISTOR 2SC2785		R117	1-249-429-11	CARBON	10K 5% 1/6W
Q343	8-729-178-54	TRANSISTOR 2SC2785		R118	1-249-429-11	CARBON	10K 5% 1/6W
Q353	8-729-178-54	TRANSISTOR 2SC2785		R119	1-249-429-11	CARBON	10K 5% 1/6W
Q354	8-729-900-36	TRANSISTOR DTC124ES		R121	1-215-867-00	METAL OXIDE	470 5% 1W F
Q355	8-729-178-54	TRANSISTOR 2SC2785		R122	1-249-417-11	CARBON	1K 5% 1/6W
Q357	8-729-117-54	TRANSISTOR 2SA1175		R123	1-216-357-00	METAL OXIDE	4.7 5% 1W F
Q358	8-729-900-36	TRANSISTOR DTC124ES		R124	1-249-433-11	CARBON	22K 5% 1/6W
Q361	8-729-117-54	TRANSISTOR 2SA1175		R125	1-249-435-11	CARBON	33K 5% 1/6W
Q362	8-729-117-54	TRANSISTOR 2SA1175		R126	1-249-431-11	CARBON	15K 5% 1/6W
Q363	8-729-117-54	TRANSISTOR 2SA1175		R127	1-249-417-11	CARBON	1K 5% 1/6W
Q371	8-729-178-54	TRANSISTOR 2SC2785		R128	1-249-434-11	CARBON	27K 5% 1/6W
Q372	8-729-178-54	TRANSISTOR 2SC2785		R129	1-247-717-11	CARBON	2.2K 5% 1/4W
Q373	8-729-178-54	TRANSISTOR 2SC2785		R130	1-247-706-11	CARBON	330 5% 1/4W
Q374	8-729-178-54	TRANSISTOR 2SC2785		R131	1-249-409-11	CARBON	220 5% 1/6W
Q393	8-729-117-54	TRANSISTOR 2SA1175		R132	1-249-409-11	CARBON	220 5% 1/6W
Q400	8-729-178-54	TRANSISTOR 2SC2785		R133	1-249-421-11	CARBON	2.2K 5% 1/6W
Q401	8-729-178-54	TRANSISTOR 2SC2785		R134	1-249-421-11	CARBON	2.2K 5% 1/6W
Q402	8-729-178-54	TRANSISTOR 2SC2785		R135	1-249-437-11	CARBON	47K 5% 1/6W
Q403	8-729-117-54	TRANSISTOR 2SA1175		R136	1-249-417-11	CARBON	1K 5% 1/6W
Q405	8-729-178-54	TRANSISTOR 2SC2785		R137	1-249-421-11	CARBON	2.2K 5% 1/6W
Q406	8-729-117-54	TRANSISTOR 2SA1175		R138	1-249-421-11	CARBON	2.2K 5% 1/6W
Q407	8-729-178-54	TRANSISTOR 2SC2785		R139	1-249-421-11	CARBON	2.2K 5% 1/6W
Q450	8-729-117-54	TRANSISTOR 2SA1175		R140	1-249-421-11	CARBON	2.2K 5% 1/6W
Q451	8-729-178-54	TRANSISTOR 2SC2785		R141	1-247-717-11	CARBON	2.2K 5% 1/4W
Q452	8-729-178-54	TRANSISTOR 2SC2785		R142	1-249-421-11	CARBON	2.2K 5% 1/6W
Q453	8-729-117-54	TRANSISTOR 2SA1175		R143	1-249-429-11	CARBON	10K 5% 1/6W
Q454	8-729-117-54	TRANSISTOR 2SA1175		R144	1-249-429-11	CARBON	10K 5% 1/6W
Q455	8-729-178-54	TRANSISTOR 2SC2785		R145	1-249-437-11	CARBON	47K 5% 1/6W
Q456	8-729-117-54	TRANSISTOR 2SA1175		R146	1-249-425-11	CARBON	4.7K 5% 1/6W
Q457	8-729-178-54	TRANSISTOR 2SC2785		R147	1-249-441-11	CARBON	100K 5% 1/6W
Q458	8-729-117-54	TRANSISTOR 2SA1175		R148	1-249-434-11	CARBON	27K 5% 1/6W
Q459	8-729-117-54	TRANSISTOR 2SA1175		R149	1-249-427-11	CARBON	6.8K 5% 1/6W
Q460	8-729-178-54	TRANSISTOR 2SC2785		R150	1-249-427-11	CARBON	6.8K 5% 1/6W
Q461	8-729-178-54	TRANSISTOR 2SC2785		R151	1-249-423-11	CARBON	3.3K 5% 1/6W
Q1301	8-729-178-54	TRANSISTOR 2SC2785		R152	1-249-421-11	CARBON	2.2K 5% 1/6W
				R153	1-249-421-11	CARBON	2.2K 5% 1/6W

B

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
R154	1-249-421-11	CARBON	2.2K 5% 1/6W	R313	1-249-421-11	CARBON	2.2K 5% 1/6W
R155	1-247-717-11	CARBON	2.2K 5% 1/4W	R314	1-249-409-11	CARBON	220 5% 1/6W
R156	1-249-423-11	CARBON	3.3K 5% 1/6W	R315	1-249-433-11	CARBON	22K 5% 1/6W
R157	1-249-433-11	CARBON	22K 5% 1/6W	R316	1-249-435-11	CARBON	33K 5% 1/6W
R158	1-249-417-11	CARBON	1K 5% 1/6W	R317	1-249-421-11	CARBON	2.2K 5% 1/6W
R159	1-249-418-11	CARBON	1.2K 5% 1/6W	R318	1-249-409-11	CARBON	220 5% 1/6W
R160	1-249-397-11	CARBON	22 5% 1/6W	R319	1-249-433-11	CARBON	22K 5% 1/6W
R161	1-249-397-11	CARBON	22 5% 1/6W	R320	1-249-435-11	CARBON	33K 5% 1/6W
R162	1-249-397-11	CARBON	22 5% 1/6W	R321	1-249-435-11	CARBON	33K 5% 1/6W
R163	1-249-397-11	CARBON	22 5% 1/6W	R322	1-249-429-11	CARBON	10K 5% 1/6W
R164	1-249-397-11	CARBON	22 5% 1/6W	R323	1-249-441-11	CARBON	100K 5% 1/6W
R165	1-247-692-11	CARBON	22 5% 1/4W	R324	1-249-441-11	CARBON	100K 5% 1/6W
R166	1-249-397-11	CARBON	22 5% 1/6W	R326	1-249-441-11	CARBON	100K 5% 1/6W
R167	1-249-397-11	CARBON	22 5% 1/6W	R327	1-249-423-11	CARBON	3.3K 5% 1/6W
R168	1-249-397-11	CARBON	22 5% 1/6W	R328	1-249-423-11	CARBON	3.3K 5% 1/6W
R169	1-249-397-11	CARBON	22 5% 1/6W	R329	1-249-423-11	CARBON	3.3K 5% 1/6W
R170	1-249-397-11	CARBON	22 5% 1/6W	R330	1-249-417-11	CARBON	1K 5% 1/6W
R171	1-249-397-11	CARBON	22 5% 1/6W	R331	1-215-493-00	CARBON	1M 5% 1/6W
R172	1-249-397-11	CARBON	22 5% 1/6W	R332	1-215-479-00	CARBON	270K 5% 1/6W
R173	1-249-397-11	CARBON	22 5% 1/6W	R333	1-249-414-11	CARBON	560 5% 1/6W
R174	1-249-429-11	CARBON	10K 5% 1/6W	R334	1-247-883-00	CARBON	150K 5% 1/6W
R175	1-249-429-11	CARBON	10K 5% 1/6W	R335	1-249-413-11	CARBON	470 5% 1/6W
R176	1-247-725-11	CARBON	10K 5% 1/4W	R336	1-249-409-11	CARBON	220 5% 1/6W
R177	1-249-433-11	CARBON	22K 5% 1/6W	R337	1-249-427-11	CARBON	6.8K 5% 1/6W
R178	1-249-433-11	CARBON	22K 5% 1/6W	R338	1-249-421-11	CARBON	2.2K 5% 1/6W
R179	1-249-425-11	CARBON	4.7K 5% 1/6W	R339	1-249-417-11	CARBON	1K 5% 1/6W
R181	1-249-435-11	CARBON	33K 5% 1/6W	R340	1-249-421-11	CARBON	2.2K 5% 1/6W
R182	1-247-849-00	CARBON	5.6K 5% 1/6W	R341	1-249-422-11	CARBON	2.7K 5% 1/6W
R183	1-249-433-11	CARBON	22K 5% 1/6W	R342	1-249-428-11	CARBON	8.2K 5% 1/6W
R184	1-249-435-11	CARBON	33K 5% 1/6W	R343	1-249-433-11	CARBON	22K 5% 1/6W
R185	1-247-713-11	CARBON	1K 5% 1/4W	R345	1-249-439-11	CARBON	68K 5% 1/6W
R186	1-249-417-11	CARBON	1K 5% 1/6W	R346	1-247-849-00	CARBON	5.6K 5% 1/6W
R187	1-249-417-11	CARBON	1K 5% 1/6W	R350	1-249-413-11	CARBON	470 5% 1/6W
R188	1-249-417-11	CARBON	1K 5% 1/6W	R351	1-249-405-11	CARBON	100 5% 1/6W
R189	1-249-417-11	CARBON	1K 5% 1/6W	R352	1-249-433-11	CARBON	22K 5% 1/6W
R190	1-249-417-11	CARBON	1K 5% 1/6W	R353	1-249-420-11	CARBON	1.8K 5% 1/6W
R191	1-249-414-11	CARBON	560 5% 1/6W	R354	1-249-435-11	CARBON	33K 5% 1/6W
R192	1-249-417-11	CARBON	1K 5% 1/6W	R355	1-249-433-11	CARBON	22K 5% 1/6W
R193	1-249-423-11	CARBON	3.3K 5% 1/6W	R356	1-249-437-11	CARBON	47K 5% 1/6W
R194	1-249-423-11	CARBON	3.3K 5% 1/6W	R357	1-249-430-11	CARBON	12K 5% 1/6W
R195	1-249-421-11	CARBON	2.2K 5% 1/6W	R358	1-249-435-11	CARBON	33K 5% 1/6W
R196	1-249-414-11	CARBON	560 5% 1/6W	R359	1-247-883-00	CARBON	150K 5% 1/6W
R197	1-249-421-11	CARBON	2.2K 5% 1/6W	R360	1-247-708-11	CARBON	470 5% 1/4W
R198	1-249-405-11	CARBON	100 5% 1/6W	R361	1-249-417-11	CARBON	1K 5% 1/6W
R199	1-249-417-11	CARBON	1K 5% 1/6W	R362	1-249-429-11	CARBON	10K 5% 1/6W
R303	1-249-469-11	CARBON	100K 5% 1/4W	R363	1-249-417-11	CARBON	1K 5% 1/6W
R304	1-249-436-11	CARBON	39K 5% 1/6W	R364	1-249-412-11	CARBON	390 5% 1/6W
R305	1-247-883-00	CARBON	150K 5% 1/6W	R365	1-247-723-11	CARBON	6.8K 5% 1/4W
R306	1-249-435-11	CARBON	33K 5% 1/6W	R366	1-247-891-00	CARBON	330K 5% 1/6W
R308	1-249-409-11	CARBON	220 5% 1/6W	R367	1-249-437-11	CARBON	47K 5% 1/6W
R310	1-247-722-11	CARBON	5.6K 5% 1/4W	R368	1-249-428-11	CARBON	8.2K 5% 1/6W
R311	1-249-439-11	CARBON	68K 5% 1/6W	R370	1-249-419-11	CARBON	1.5K 5% 1/6W
R312	1-249-439-11	CARBON	68K 5% 1/6W	R371	1-249-435-11	CARBON	33K 5% 1/6W

**B**

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R372	1-249-441-11	CARBON	100K 5% 1/6W	R438	1-249-431-11	CARBON	15K 5% 1/6W
R373	1-249-435-11	CARBON	33K 5% 1/6W	R439	1-249-418-11	CARBON	1.2K 5% 1/6W
R374	1-249-435-11	CARBON	33K 5% 1/6W	R440	1-249-417-11	CARBON	1K 5% 1/6W
R375	1-249-423-11	CARBON	3.3K 5% 1/6W	R441	1-249-420-11	CARBON	1.8K 5% 1/6W
R377	1-249-409-11	CARBON	220 5% 1/6W	R442	1-249-421-11	CARBON	2.2K 5% 1/6W
R378	1-249-414-11	CARBON	560 5% 1/6W	R443	1-249-408-11	CARBON	180 5% 1/6W
R379	1-249-429-11	CARBON	10K 5% 1/6W	R444	1-249-439-11	CARBON	68K 5% 1/6W
R380	1-249-437-11	CARBON	47K 5% 1/6W	R445	1-249-431-11	CARBON	15K 5% 1/6W
R381	1-249-440-11	CARBON	82K 5% 1/6W	R446	1-249-417-11	CARBON	1K 5% 1/6W
R382	1-249-438-11	CARBON	56K 5% 1/6W	R447	1-249-414-11	CARBON	560 5% 1/6W
R383	1-215-479-00	CARBON	270K 5% 1/6W	R448	1-249-393-11	CARBON	10 5% 1/6W
R384	1-249-425-11	CARBON	4.7K 5% 1/6W	R449	1-249-418-11	CARBON	1.2K 5% 1/6W
R385	1-249-414-11	CARBON	560 5% 1/6W	R450	1-249-419-11	CARBON	1.5K 5% 1/6W
R386	1-249-429-11	CARBON	10K 5% 1/6W	R451	1-249-420-11	CARBON	1.8K 5% 1/6W
R387	1-249-417-11	CARBON	1K 5% 1/6W	R452	1-249-393-11	CARBON	10 5% 1/6W
R388	1-215-483-00	CARBON	390K 5% 1/6W	R453	1-249-419-11	CARBON	1.5K 5% 1/6W
R389	1-249-433-11	CARBON	22K 5% 1/6W	R454	1-249-419-11	CARBON	1.5K 5% 1/6W
R390	1-249-433-11	CARBON	22K 5% 1/6W	R456	1-249-409-11	CARBON	220 5% 1/6W
R391	1-249-437-11	CARBON	47K 5% 1/6W	R457	1-249-435-11	CARBON	33K 5% 1/6W
R392	1-249-431-11	CARBON	15K 5% 1/6W	R458	1-249-425-11	CARBON	4.7K 5% 1/6W
R393	1-249-435-11	CARBON	33K 5% 1/6W	R460	1-249-436-11	CARBON	39K 5% 1/6W
R394	1-249-429-11	CARBON	10K 5% 1/6W	R461	1-249-431-11	CARBON	15K 5% 1/6W
R395	1-247-895-00	CARBON	470K 5% 1/6W	R462	1-249-421-11	CARBON	2.2K 5% 1/6W
R396	1-249-419-11	CARBON	1.5K 5% 1/6W	R463	1-249-422-11	CARBON	2.7K 5% 1/6W
R398	1-249-420-11	CARBON	1.8K 5% 1/6W	R464	1-249-409-11	CARBON	220 5% 1/6W
R401	1-249-412-11	CARBON	390 5% 1/6W	R465	1-249-435-11	CARBON	33K 5% 1/6W
R402	1-247-717-11	CARBON	2.2K 5% 1/4W	R466	1-247-721-11	CARBON	4.7K 5% 1/4W
R403	1-249-427-11	CARBON	6.8K 5% 1/6W	R467	1-215-456-00	CARBON	30K 5% 1/6W
R404	1-249-429-11	CARBON	10K 5% 1/6W	R468	1-249-429-11	CARBON	10K 5% 1/6W
R406	1-249-412-11	CARBON	390 5% 1/6W	R470	1-249-420-11	CARBON	1.8K 5% 1/6W
R410	1-249-422-11	CARBON	2.7K 5% 1/6W	R471	1-249-425-11	CARBON	4.7K 5% 1/6W
R411	1-215-489-00	CARBON	680K 5% 1/6W	R472	1-249-420-11	CARBON	1.8K 5% 1/6W
R412	1-249-417-11	CARBON	1K 5% 1/6W	R473	1-249-425-11	CARBON	4.7K 5% 1/6W
R413	1-249-425-11	CARBON	4.7K 5% 1/6W	R474	1-249-417-11	CARBON	1K 5% 1/6W
R414	1-249-438-11	CARBON	56K 5% 1/6W	R475	1-249-405-11	CARBON	100 5% 1/6W
R415	1-249-429-11	CARBON	10K 5% 1/6W	R476	1-249-416-11	CARBON	820 5% 1/6W
R418	1-247-720-11	CARBON	3.9K 5% 1/4W	R477	1-249-413-11	CARBON	470 5% 1/6W
R419	1-249-429-11	CARBON	10K 5% 1/6W	R478	1-249-421-11	CARBON	2.2K 5% 1/6W
R420	1-249-412-11	CARBON	390 5% 1/6W	R479	1-249-421-11	CARBON	2.2K 5% 1/6W
R421	1-249-438-11	CARBON	56K 5% 1/6W	R480	1-249-429-11	CARBON	10K 5% 1/6W
R422	1-249-427-11	CARBON	6.8K 5% 1/6W	R481	1-249-429-11	CARBON	10K 5% 1/6W
R425	1-249-408-11	CARBON	180 5% 1/6W	R482	1-249-421-11	CARBON	2.2K 5% 1/6W
R426	1-249-435-11	CARBON	33K 5% 1/6W	R483	1-249-421-11	CARBON	2.2K 5% 1/6W
R427	1-249-423-11	CARBON	3.3K 5% 1/6W	R484	1-249-433-11	CARBON	22K 5% 1/6W
R429	1-249-429-11	CARBON	10K 5% 1/6W	R485	1-249-417-11	CARBON	1K 5% 1/6W
R430	1-249-423-11	CARBON	3.3K 5% 1/6W	R486	1-249-435-11	CARBON	33K 5% 1/6W
R431	1-249-425-11	CARBON	4.7K 5% 1/6W	R487	1-249-435-11	CARBON	33K 5% 1/6W
R432	1-249-428-11	CARBON	8.2K 5% 1/6W	R488	1-249-435-11	CARBON	33K 5% 1/6W
R433	1-249-428-11	CARBON	8.2K 5% 1/6W	R1100	1-249-405-11	CARBON	100 5% 1/6W
R434	1-249-418-11	CARBON	1.2K 5% 1/6W	R1101	1-249-437-11	CARBON	47K 5% 1/6W
R435	1-249-417-11	CARBON	1K 5% 1/6W	R1102	1-249-429-11	CARBON	10K 5% 1/6W
R436	1-249-421-11	CARBON	2.2K 5% 1/6W	R1105	1-249-431-11	CARBON	15K 5% 1/6W
R437	1-249-431-11	CARBON	15K 5% 1/6W	R1106	1-249-399-11	CARBON	33 5% 1/6W

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Ref.No.	Part No.	Description			Remark	Ref.No.	Part No.	Description			Remark
R1107	1-249-437-11	CARBON	47K	5%	1/6W	R1367	1-202-730-00	SOLID	8.2M	10%	1/2W
R1108	1-249-405-11	CARBON	100	5%	1/6W	R1368	1-249-411-11	CARBON	330	5%	1/6W
R1109	1-249-429-11	CARBON	10K	5%	1/6W	R1369	1-249-413-11	CARBON	470	5%	1/6W
R1110	1-249-430-11	CARBON	12K	5%	1/6W	R1370	1-249-409-11	CARBON	220	5%	1/6W
R1111	1-249-437-11	CARBON	47K	5%	1/6W	R1371	1-249-413-11	CARBON	470	5%	1/6W
R1112	1-249-441-11	CARBON	100K	5%	1/6W	R1375	1-249-425-11	CARBON	4.7K	5%	1/6W
R1114	1-249-393-11	CARBON	10	5%	1/6W	R1376	1-215-479-00	CARBON	270K	5%	1/6W
R1115	1-249-425-11	CARBON	4.7K	5%	1/6W	R1377	1-249-434-11	CARBON	27K	5%	1/6W
R1304	1-247-704-11	CARBON	220	5%	1/4W	R1378	1-249-410-11	CARBON	270	5%	1/6W
R1305	1-247-704-11	CARBON	220	5%	1/4W	R1379	1-249-405-11	CARBON	100	5%	1/6W
R1306	1-247-704-11	CARBON	220	5%	1/4W	R1401	1-249-433-11	CARBON	22K	5%	1/6W
R1307	1-247-704-11	CARBON	220	5%	1/4W	R1402	1-249-433-11	CARBON	22K	5%	1/6W
R1308	1-249-429-11	CARBON	10K	5%	1/6W	R1403	1-249-433-11	CARBON	22K	5%	1/6W
R1309	1-247-704-11	CARBON	220	5%	1/4W	R1404	1-249-433-11	CARBON	22K	5%	1/6W
R1310	1-249-437-11	CARBON	47K	5%	1/6W	R1405	1-249-437-11	CARBON	47K	5%	1/6W
R1311	1-249-409-11	CARBON	220	5%	1/6W	R1406	1-249-437-11	CARBON	47K	5%	1/6W
R1312	1-247-887-00	CARBON	220K	5%	1/6W	R1407	1-249-437-11	CARBON	47K	5%	1/6W
R1313	1-247-725-11	CARBON	10K	5%	1/4W	R1408	1-249-437-11	CARBON	47K	5%	1/6W
R1314	1-249-429-11	CARBON	10K	5%	1/6W	R1409	1-247-704-11	CARBON	220	5%	1/4W
R1315	1-249-435-11	CARBON	33K	5%	1/6W	R1410	1-249-421-11	CARBON	2.2K	5%	1/6W
R1316	1-249-435-11	CARBON	33K	5%	1/6W	R1411	1-247-725-11	CARBON	10K	5%	1/4W
R1317	1-249-417-11	CARBON	1K	5%	1/6W	R1412	1-249-429-11	CARBON	10K	5%	1/6W
R1318	1-249-417-11	CARBON	1K	5%	1/6W	R1413	1-249-421-11	CARBON	2.2K	5%	1/6W
R1320	1-249-409-11	CARBON	220	5%	1/6W	<u>VARIABLE RESISTOR</u>					
R1322	1-249-440-11	CARBON	82K	5%	1/6W	RV301	1-230-626-41	RES, ADJ, CARBON	470		
R1323	1-249-429-11	CARBON	10K	5%	1/6W	RV302	1-230-631-11	RES, ADJ, CARBON	22K		
R1324	1-247-881-00	CARBON	120K	5%	1/6W	RV303	1-230-630-11	RES, ADJ, CARBON	10K		
R1325	1-249-409-11	CARBON	220	5%	1/6W	RV318	1-230-271-00	RES, ADJ, CARBON	4.7K		
R1326	1-249-409-11	CARBON	220	5%	1/6W	RV1301	1-230-628-11	RES, ADJ, CARBON	2.2K		
R1327	1-215-493-00	CARBON	1M	5%	1/6W	RV1302	1-230-628-11	RES, ADJ, CARBON	2.2K		
R1328	1-249-417-11	CARBON	1K	5%	1/6W	<u>TRANSFORMER</u>					
R1329	1-249-437-11	CARBON	47K	5%	1/6W	T301	1-404-524-11	DAT			
R1330	1-249-417-11	CARBON	1K	5%	1/6W	T401	1-404-584-11	COIL			
R1331	1-247-849-00	CARBON	5.6K	5%	1/6W	<u>CRYSTAL</u>					
R1332	1-249-437-11	CARBON	47K	5%	1/6W	X101	1-567-192-11	OSCILLATOR, CERAMIC			
R1333	1-215-430-00	CARBON	2.4K	5%	1/6W	X358	1-567-505-11	OSCILLATOR, CRYSTAL			
R1334	1-249-429-11	CARBON	10K	5%	1/6W	X443	1-567-504-11	OSCILLATOR, CRYSTAL			
R1335	1-249-409-11	CARBON	220	5%	1/6W	*****					
R1337	1-249-405-11	CARBON	100	5%	1/6W	*A-1245-395-A FA BOARD, COMPLETE (AEP, AUS ONLY)					
R1339	1-249-419-11	CARBON	1.5K	5%	1/6W	*****					
R1340	1-249-409-11	CARBON	220	5%	1/6W	**A-1245-414-A FA BOARD, COMPLETE (WG ONLY)					
R1341	1-249-437-11	CARBON	47K	5%	1/6W	*****					
R1342	1-249-405-11	CARBON	100	5%	1/6W	*****					
R1344	1-247-838-00	CARBON	2K	5%	1/6W	*****					
R1345	1-249-409-11	CARBON	220	5%	1/6W	*****					
R1347	1-249-405-11	CARBON	100	5%	1/6W	*****					
R1360	1-249-414-11	CARBON	560	5%	1/6W	*****					
R1362	1-249-414-11	CARBON	560	5%	1/6W	*****					
R1363	1-215-491-00	CARBON	820K	5%	1/6W	*****					
R1364	1-249-424-11	CARBON	3.9K	5%	1/6W	C601	A-1-136-360-51	FILM	0.22MF	20%	250V
R1365	1-249-437-11	CARBON	47K	5%	1/6W	C607	1-161-738-00	CERAMIC	0.0047MF	20%	400V
R1366	1-249-422-11	CARBON	2.7K	5%	1/6W	C608	A-1-161-738-12	CERAMIC	0.0047MF	20%	400V
						C610	1-125-222-21	ELECT(BLOCK)	330MF	20%	400V
						C617	1-161-738-00	CERAMIC	0.0047MF	20%	400V
						C618	1-102-030-00	CERAMIC	330PE	10%	500V

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Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
C619	1-129-743-00	FILM	0.022MF	10%	400V		<u>FUSE</u>
C620	1-124-126-00	ELECT	47MF	20%	16V		
C621	1-130-062-00	FILM	0.0056MF	5%	630V	F601 $\Delta$ .1-532-299-11	FUSE, TIME-LAG 5A/250V
C622	1-124-344-91	ELECT	22MF	20%	100V	*1-533-189-11	HOLDER, FUSE; F601
C623	1-161-973-00	CERAMIC	220PF	10%	400V		
C624	1-161-973-00	CERAMIC	220PF	10%	400V		<u>CONNECTOR</u>
C632	1-102-002-00	CERAMIC	680PF	10%	500V	FA1 *1-506-348-XX	3P PLUG (L)
C651	1-162-115-00	CERAMIC	330PF	10%	2KV	FA2 *1-506-348-XX	3P PLUG (L)
C652	1-125-294-00	ELECT(BLOCK)	560MF	20%	160V	FA3 *1-508-765-00	3P PLUG (M)
C653	1-123-364-00	ELECT	1000MF	20%	50V	FA4 *1-508-767-00	5P PLUG
C654	1-123-338-00	ELECT	2200MF	20%	25V	FA6 *1-508-765-00	3P PLUG (M)
C655	1-123-338-00	ELECT	2200MF	20%	25V	FA7 *1-566-058-11	PIN, CONNECTOR 6P
C656	1-162-318-11	CERAMIC	0.001MF	10%	500V	FA9 *1-564-529-11	CONNECTOR, BOARD TO BOARD 5P
C658	1-124-126-00	ELECT	47MF	20%	25V	FA10 *1-564-529-11	CONNECTOR, BOARD TO BOARD 5P
C659	1-102-030-00	CERAMIC	330PF	10%	500V		
C661	1-123-333-00	ELECT	100MF	20%	25V		<u>IC</u>
C662	1-136-332-11	FILM	0.01MF	5%	630V	IC602 8-719-800-82	DIODE TLP581
C663	1-124-038-00	ELECT	1MF	20%	50V	IC651 8-759-145-58	IC UPC4558C
C664	1-124-038-00	ELECT	1MF	20%	50V		
C666	1-124-123-00	ELECT	100MF	20%	10V		<u>COIL</u>
C667	1-102-121-00	CERAMIC	0.0022MF	10%	50V	L601 1-407-365-00	COIL, CHOKE
C668 $\Delta$ .1-136-360-51	FILM	0.22MF	20%	250V	L652 1-407-780-00	COIL, SPOOK CHOKE	
C669 $\Delta$ .1-161-738-12	CERAMIC	0.0047MF	20%	400V			
C670 $\Delta$ .1-161-738-12	CERAMIC	0.0047MF	20%	400V		<u>IC LINK</u>	
C671 $\Delta$ .1-161-738-12	CERAMIC	0.0047MF	20%	400V	PS651 1-532-675-00	LINK, IC	
C672 $\Delta$ .1-161-738-12	CERAMIC	0.0047MF	20%	400V	PS652 1-532-686-00	LINK, IC	
C673 $\Delta$ .1-161-738-12	CERAMIC	0.0047MF	20%	400V	PS654 1-532-637-00	LINK, IC	
C674 $\Delta$ .1-136-360-51	FILM	0.22MF	20%	250V			
C677	1-136-173-00	FILM	0.47MF	5%	50V		<u>TRANSISTOR</u>
C682	1-130-062-00	FILM	0.0056MF	5%	630V	Q601 8-729-195-82	TRANSISTOR 2SC2958
C686	1-136-173-00	FILM	0.47MF	5%	50V	Q602 8-729-802-07	TRANSISTOR 2SD1403-CA
						3-701-833-01	HEAD, WASHER, TAPPING SCREW; Q602
D601	8-719-503-06	DIODE S3WB60Z				4-365-216-00	SPACER, MICA; Q602
D602	8-719-100-65	DIODE RD12E-B2				Q651 8-729-109-53	TRANSISTOR 2SD795A
D605	8-719-924-06	DIODE ERC24-06S					
D607	8-719-815-55	DIODE 1S1555				*4-347-706-00	HEAT SINK (TR); Q651
D608	8-719-815-55	DIODE 1S1555				Q652 8-729-178-54	TRANSISTOR 2SC2785
D609	8-719-925-06	DIODE ERC25-06S					<u>RESISTOR</u>
D651	8-719-900-26	DIODE ERD29-08J				R601 $\Delta$ .1-217-328-11	WIREWOUND
D653	8-719-300-59	DIODE CTU-12S				R604 $\Delta$ .1-247-289-11	CARBON
D654	8-719-300-59	DIODE CTU-12S				R609 1-215-894-11	METAL OXIDE
*4-347-706-00	HEAT SINK (TR); D654					R612 1-215-904-11	METAL OXIDE
D655	8-719-000-12	DIODE MC931				R613 1-215-895-11	METAL OXIDE
D656	8-719-300-59	DIODE CTU-12S				R614 1-216-458-11	METAL OXIDE
*4-347-706-00	HEAT SINK (TR); D656					R615 1-205-737-00	CEMENTED
D658	8-719-110-03	DIODE RD7.5ES-B2				R623 1-247-718-11	CARBON
D659	8-719-110-03	DIODE RD7.5ES-B2				R627 1-249-409-11	CARBON
D660	8-719-815-55	DIODE 1S1555				R628 1-215-479-00	CARBON
D661	8-719-815-55	DIODE 1S1555				R629 1-249-427-11	CARBON
D663	8-719-109-93	DIODE RD6.2ES-B2				R630 1-247-692-11	CARBON
D664	8-719-100-65	DIODE RD12E-B2				R631 1-217-352-11	WIREWOUND
						R632 1-217-192-00	WIREWOUND
						R652 1-216-430-11	METAL OXIDE

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

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<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>					<u>Remark</u>	<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>					<u>Remark</u>
R653	1-249-425-11	CARBON	4.7K	5%	1/6W			D603	8-719-815-55	DIODE	1S1555				
R654	1-216-464-11	METAL OXIDE	18K	5%	2W	F		D604	8-759-157-40	DIODE	1S1555				
R662	1-249-436-11	CARBON	39K	5%	1/6W			D606	8-719-911-19	DIODE	ISS119				
R663	1-249-430-11	CARBON	12K	5%	1/6W										
R664	1-249-441-11	CARBON	100K	5%	1/6W										
R665	1-215-436-00	METAL	4.3K	1%	1/6W										
R666	1-247-713-11	CARBON	1K	5%	1/4W										
R667	1-247-703-11	CARBON	180	5%	1/4W										
R669	1-247-720-11	CARBON	3.9K	5%	1/4W										
R670	1-249-421-11	CARBON	2.2K	5%	1/6W										
R671	▲1-205-758-11	CEMENTED	100	10%	10W	F									
R673	▲1-244-945-91	CARBON	1M	5%	1/2W										
R676	1-205-758-11	CEMENTED	100	10%	10W	F									
R677	1-216-346-00	METAL OXIDE	0.56	5%	1W	F									
R678	1-247-749-11	CARBON	560	5%	1/2W	F									
R679	1-215-924-00	METAL OXIDE	15K	5%	3W	F									
R680	1-217-353-11	WIREDOWN	470	10%	7W	F									
R681	1-246-403-75	CARBON	1.2	5%	1/4W										
R683	1-216-488-11	METAL OXIDE	18K	5%	3W	F									
R684	1-246-403-75	CARBON	1.2	5%	1/4W										
<u>VARIABLE RESISTOR</u>															
RV651	1-230-230-00	RES, ADJ, CERAMIC	CARBON	1K											
RV652	1-226-702-00	RES, ADJ, METAL	GLAZE	2.2K											
<u>TRANSFORMER</u>															
T601	▲1-421-758-11	TRANSFORMER, LINE FILTER (LFT)	(AEP, AUS ONLY)												
	▲1-421-974-11	TRANSFORMER, LINE FILTER (WG ONLY)													
T602	▲1-421-758-11	TRANSFORMER, LINE FILTER (LFT)	(AEP, AUS ONLY)												
	▲1-421-974-11	TRANSFORMER, LINE FILTER (WG ONLY)													
T603	▲1-437-079-11	TRANSFORMER, HORIZONTAL DRIVE													
T605	▲1-448-931-11	SRT													
T607	1-421-975-11	TRANSFORMER, LINE FILTER (WG ONLY)													
<u>THERMISTOR</u>															
TH651	1-800-944-00	THERMISTOR	TH-4700												
THP601	▲1-806-387-11	THERMISTOR (POSITIVE)													
THP602	▲1-806-387-11	THERMISTOR (POSITIVE)													
*****															
*1-621-548-11	FC BOARD	*****													
3-670-570-41	SPACER, SUPPORT														
<u>CAPACITOR</u>															
C611	1-106-220-00	MYLAR	0.1MF	10%	100V										
C612	1-106-351-00	MYLAR	0.0022MF	5%	50V										
C613	1-123-356-00	ELECT	10MF	20%	16V										
C614	1-123-875-91	ELECT	10MF	20%	50V										
C615	1-102-074-00	CERAMIC	0.001MF	10%	50V										
C616	1-123-875-91	ELECT	10MF	20%	50V										
C625	1-123-380-00	ELECT	1MF	20%	50V										
C627	1-136-153-00	FILM	0.01MF	5%	50V										
C628	1-102-820-00	CERAMIC	330PF	5%	50V										
C634	1-106-220-00	MYLAR	0.1MF	10%	100V										
<u>CAPACITOR</u>															
C1700	1-124-236-00	ELECT	47MF	20%	16V										
C1701	1-124-247-00	ELECT	10MF	20%	25V										
C1702	1-124-247-00	ELECT	10MF	20%	25V										
C1703	1-124-236-00	ELECT	47MF	20%	16V										
C1704	1-124-247-00	ELECT	10MF	20%	25V										
C1705	1-124-247-00	ELECT	10MF	20%	25V										
<u>THERMISTOR</u>															
TH601	▲1-800-944-11	THERMISTOR	TH-4700												
*****															
*A-1270-212-A	QA BOARD, COMPLETE (AEP, AUS ONLY)	*****													
*A-1270-223-A	QA BOARD, COMPLETE (WG ONLY)	*****													
1-537-075-11	TERMINAL BOARD, INPUT/OUTPUT														
1-537-076-11	TERMINAL BOARD, INPUT/OUTPUT														

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

**QA**

<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>			<u>Remark</u>	<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>			<u>Remark</u>
C1706	1-124-247-00	ELECT	10MF	20%	25V	R1705	1-247-104-00	CARBON	75	5%	1/4W
C1707	1-124-247-00	ELECT	10MF	20%	25V	R1706	1-249-417-11	CARBON	1K	5%	1/6W
C1708	1-124-236-00	ELECT	47MF	20%	16V	R1707	1-215-491-00	CARBON	820K	5%	1/6W
C1709	1-124-247-00	ELECT	10MF	20%	25V	R1708	1-249-417-11	CARBON	1K	5%	1/6W
C1710	1-102-965-00	CERAMIC	39PF	5%	50V	R1709	1-215-491-00	CARBON	820K	5%	1/6W
C1712	1-102-965-00	CERAMIC	39PF	5%	50V	R1710	1-247-104-00	CARBON	75	5%	1/4W
C1714	1-102-965-00	CERAMIC	39PF	5%	50V	R1711	1-249-414-11	CARBON	560	5%	1/6W
C1715	1-124-247-00	ELECT	10MF	20%	25V	R1712	1-247-895-00	CARBON	470K	5%	1/6W
C1716	1-124-247-00	ELECT	10MF	20%	25V	R1713	1-249-414-11	CARBON	560	5%	1/6W
C1717	1-124-247-00	ELECT	10MF	20%	25V	R1714	1-247-895-00	CARBON	470K	5%	1/6W
C1718	1-124-247-00	ELECT	10MF	20%	25V	R1715	1-247-104-00	CARBON	75	5%	1/4W
C1719	1-124-236-00	ELECT	47MF	20%	16V	R1716	1-249-417-11	CARBON	1K	5%	1/6W
C1720	1-124-236-00	ELECT	47MF	20%	16V	R1717	1-215-491-00	CARBON	820K	5%	1/6W
C1721	1-124-236-00	ELECT	47MF	20%	16V	R1718	1-247-708-11	CARBON	470	5%	1/4W
C1722	1-124-236-00	ELECT	47MF	20%	16V	R1719	1-249-408-11	CARBON	180	5%	1/6W
C1723	1-124-247-00	ELECT	10MF	20%	25V	R1720	1-249-421-11	CARBON	2.2K	5%	1/6W
C1728	1-102-973-00	CERAMIC	100PF	5%	50V	R1721	1-247-708-11	CARBON	470	5%	1/4W
C1729	1-102-973-00	CERAMIC	100PF	5%	50V	R1722	1-249-408-11	CARBON	180	5%	1/6W
C1731	1-102-973-00	CERAMIC	100PF	5%	50V	R1723	1-249-421-11	CARBON	2.2K	5%	1/6W
C1732	1-102-973-00	CERAMIC	100PF	5%	50V	R1724	1-247-708-11	CARBON	470	5%	1/4W
C1738	1-102-973-00	CERAMIC	100PF	5%	50V	R1725	1-249-408-11	CARBON	180	5%	1/6W
C1743	1-102-973-00	CERAMIC	100PF	5%	50V	R1726	1-247-895-00	CARBON	470K	5%	1/6W
C1744	1-102-973-00	CERAMIC	100PF	5%	50V	R1727	1-247-713-11	CARBON	1K	5%	1/4W
C1747	1-102-965-00	CERAMIC	39PF	5%	50V	R1728	1-215-491-00	CARBON	820K	5%	1/6W
C1748	1-102-965-00	CERAMIC	39PF	5%	50V	R1729	1-247-710-11	CARBON	560	5%	1/4W
C1749	1-102-965-00	CERAMIC	39PF	5%	50V	R1730	1-247-895-00	CARBON	470K	5%	1/6W
C1750	1-102-965-00	CERAMIC	39PF	5%	50V	R1731	1-247-713-11	CARBON	1K	5%	1/4W
C1752	1-102-973-00	CERAMIC	100PF	5%	50V	R1732	1-215-491-00	CARBON	820K	5%	1/6W
C1753	1-102-965-00	CERAMIC	39PF	5%	50V	R1733	1-247-104-00	CARBON	75	5%	1/4W
						R1735	1-247-104-00	CARBON	75	5%	1/4W
		<u>DIODE</u>				R1736	1-247-104-00	CARBON	75	5%	1/4W
D1703	8-719-100-38	DIODE RD6.2E-B2				R1737	1-247-104-00	CARBON	75	5%	1/4W
D1706	8-719-100-38	DIODE RD6.2E-B2				R1738	1-249-417-11	CARBON	1K	5%	1/6W
D1707	8-719-100-38	DIODE RD6.2E-B2				R1739	1-247-104-00	CARBON	75	5%	1/4W
D1708	8-719-100-38	DIODE RD6.2E-B2				R1740	1-249-429-11	CARBON	10K	5%	1/6W
D1709	8-719-100-38	DIODE RD6.2E-B2				R1742	1-249-412-11	CARBON	390	5%	1/6W
D1710	8-719-100-38	DIODE RD6.2E-B2				R1743	1-247-713-11	CARBON	1K	5%	1/4W
D1711	8-719-100-38	DIODE RD6.2E-B2				R1744	1-215-491-00	CARBON	820K	5%	1/6W
		<u>JACK</u>				R1745	1-249-429-11	CARBON	10K	5%	1/6W
J25	1-561-534-41	SOCKET 21P				R1746	1-249-406-11	CARBON	120	5%	1/6W
		<u>COIL</u>				R1750	1-249-417-11	CARBON	1K	5%	1/6W
L1770	1-408-604-00	MICRO INDUCTOR 12UH (WG ONLY)				R1751	1-247-104-00	CARBON	75	5%	1/4W
		<u>CONNECTOR</u>				R1752	1-249-401-11	CARBON	47	5%	1/6W
QA1	*1-566-055-11	PIN, CONNECTOR 3P				R1753	1-249-401-11	CARBON	47	5%	1/6W
QA2	*1-560-278-00	PLUG, CONNECTOR 3P				R1754	1-249-401-11	CARBON	47	5%	1/6W
		<u>RESISTOR</u>				R1755	1-249-418-11	CARBON	1.2K	5%	1/6W
R1700	1-247-104-00	CARBON	75	5%	1/4W	R1756	1-249-418-11	CARBON	1.2K	5%	1/6W
R1701	1-249-417-11	CARBON	1K	5%	1/6W	R1760	1-215-483-00	CARBON	390K	5%	1/6W
R1702	1-215-491-00	CARBON	820K	5%	1/6W	R1761	1-215-483-00	CARBON	390K	5%	1/6W
R1703	1-249-417-11	CARBON	1K	5%	1/6W	R1762	1-215-483-00	CARBON	390K	5%	1/6W
R1704	1-215-491-00	CARBON	820K	5%	1/6W	R1763	1-215-483-00	CARBON	390K	5%	1/6W
		<u>RESISTOR</u>				R1768	1-249-406-11	CARBON	120	5%	1/6W
						R1769	1-247-710-11	CARBON	560	5%	1/4W

QA QB

<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>			<u>Remark</u>	<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>			<u>Remark</u>
<u>SWITCH</u>						<u>DIODE</u>					
SW1	1-570-145-11	SWITCH, SLIDE				D1770	8-719-911-19	DIODE	I <sub>S</sub> S119		
SW2	1-570-145-11	SWITCH, SLIDE				D1771	8-719-911-19	DIODE	I <sub>S</sub> S119		
SW3	1-570-145-11	SWITCH, SLIDE				D1772	8-719-911-19	DIODE	I <sub>S</sub> S119		
SW4	1-570-145-11	SWITCH, SLIDE				D1773	8-719-911-19	DIODE	I <sub>S</sub> S119		
SW5	1-570-145-11	SWITCH, SLIDE				D1774	8-719-911-19	DIODE	I <sub>S</sub> S119		
*****						D1775	8-719-911-19	DIODE	I <sub>S</sub> S119		
*A-1270-213-A QB BOARD, COMPLETE						D1776	8-719-911-19	DIODE	I <sub>S</sub> S119		
*****						D1777	8-719-911-19	DIODE	I <sub>S</sub> S119		
<u>CAPACITOR</u>						D1780	8-719-911-19	DIODE	I <sub>S</sub> S119		
C1777	1-102-074-00	CERAMIC	0.001MF	10%	50V	D1782	8-719-911-19	DIODE	I <sub>S</sub> S119		
C1778	1-102-074-00	CERAMIC	0.001MF	10%	50V	D1783	8-719-931-06	DIODE	EQB01-06		
C1779	1-124-475-11	ELECT	470MF	20%	16V	D1784	8-719-110-14	DIODE	RD9.1ES-B3		
C1781	1-101-004-00	CERAMIC	0.01MF		50V	D1787	8-719-109-90	DIODE	RD5.6ES-B3		
C1788	1-124-247-00	ELECT	10MF	20%	25V	D1788	8-719-911-19	DIODE	I <sub>S</sub> S119		
C1789	1-124-247-00	ELECT	10MF	20%	25V	D1789	8-719-911-19	DIODE	I <sub>S</sub> S119		
C1790	1-124-236-00	ELECT	47MF	20%	16V	<u>IC</u>					
C1791	1-124-236-00	ELECT	47MF	20%	16V	IC1770	8-759-800-65	IC	LA7910		
C1792	1-102-959-00	CERAMIC	22PF	5%	50V	IC1771	8-759-140-66	IC	UPD4066BC		
C1793	1-101-004-00	CERAMIC	0.01MF		50V	IC1772	8-759-102-37	IC	UPD4052BC		
C1794	1-124-236-00	ELECT	47MF	20%	16V	IC1773	8-759-102-37	IC	UPD4052BC		
C1795	1-101-004-00	CERAMIC	0.01MF		50V	IC1774	8-759-900-86	IC	SN74LS86N		
C1799	1-124-471-00	ELECT	1000MF	20%	6.3V	IC1775	8-759-901-38	IC	SN74LS138N		
C1800	1-124-236-00	ELECT	47MF	20%	16V	IC1776	8-759-900-09	IC	SN74LS09N		
C1801	1-124-475-11	ELECT	470MF	20%	16V	<u>COIL</u>					
C1802	1-102-971-00	CERAMIC	82PF	5%	50V	L1770	1-408-239-00	MICRO INDUCTOR	4.7MMH		
C1803	1-124-471-00	ELECT	1000MF	20%	6.3V	<u>TRANSISTOR</u>					
C1804	1-102-971-00	CERAMIC	82PF	5%	50V	Q1773	8-729-117-54	TRANSISTOR	2SA1175		
C1806	1-101-361-00	CERAMIC	150PF	5%	50V	Q1774	8-729-178-54	TRANSISTOR	2SC2785		
C1807	1-102-111-00	CERAMIC	270PF	10%	50V	Q1775	8-729-117-54	TRANSISTOR	2SA1175		
C1808	1-101-004-00	CERAMIC	0.01MF		50V	Q1776	8-729-178-54	TRANSISTOR	2SC2785		
C1810	1-124-236-00	ELECT	47MF	20%	16V	Q1777	8-729-178-54	TRANSISTOR	2SC2785		
C1811	1-124-236-00	ELECT	47MF	20%	16V	Q1778	8-729-178-54	TRANSISTOR	2SC2785		
C1813	1-124-236-00	ELECT	47MF	20%	16V	Q1779	8-729-117-54	TRANSISTOR	2SA1175		
C1820	1-124-236-00	ELECT	47MF	20%	16V	Q1780	8-729-117-54	TRANSISTOR	2SA1175		
C1821	1-101-004-00	CERAMIC	0.01MF		50V	Q1781	8-729-178-54	TRANSISTOR	2SC2785		
C1823	1-124-267-11	ELECT	0.1MF	20%	50V	Q1782	8-729-900-89	TRANSISTOR	DTC144ES		
C1824	1-124-267-11	ELECT	0.1MF	20%	50V	Q1784	8-729-178-54	TRANSISTOR	2SC2785		
C1825	1-124-267-11	ELECT	0.1MF	20%	50V	Q1785	8-729-178-54	TRANSISTOR	2SC2785		
C1827	1-101-880-00	CERAMIC	47PF	5%	50V	Q1786	8-729-178-54	TRANSISTOR	2SC2785		
C1828	1-123-611-00	ELECT	1MF	20%	50V	Q1787	8-729-177-43	TRANSISTOR	2SD774		
C1830	1-124-236-00	ELECT	47MF	20%	16V	Q1788	8-729-117-54	TRANSISTOR	2SA1175		
C1831	1-101-004-00	CERAMIC	0.01MF		50V	Q1789	8-729-178-54	TRANSISTOR	2SC2785		
C1832	1-124-236-00	ELECT	47MF	20%	16V	Q1790	8-729-177-43	TRANSISTOR	2SD774		
C1833	1-101-004-00	CERAMIC	0.01MF		50V	Q1791	8-729-900-36	TRANSISTOR	DTC124ES		
C1834	1-101-004-00	CERAMIC	0.01MF		50V	Q1792	8-729-178-54	TRANSISTOR	2SC2785		
C1835	1-124-236-00	ELECT	47MF	20%	16V	Q1793	8-729-117-54	TRANSISTOR	2SA1175		
C1837	1-124-963-11	ELECT	33MF	20%	16V	Q1794	8-729-178-54	TRANSISTOR	2SC2785		
C1838	1-101-880-00	CERAMIC	47PF	5%	50V	Q1795	8-729-178-54	TRANSISTOR	2SC2785		
C1839	1-124-236-00	ELECT	47MF	20%	16V	Q1796	8-729-178-54	TRANSISTOR	2SC2785		
C1840	1-101-004-00	CERAMIC	0.01MF		50V	Q1797	8-729-178-54	TRANSISTOR	2SC2785		

**QB**

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
Q1798	8-729-117-54	TRANSISTOR 2SA1175		R1785	1-249-441-11	CARBON	100K 5% 1/6W
Q1799	8-729-178-54	TRANSISTOR 2SC2785		R1786	1-249-441-11	CARBON	100K 5% 1/6W
Q1802	8-729-900-36	TRANSISTOR DTC124ES		R1787	1-249-433-11	CARBON	22K 5% 1/6W
Q1803	8-729-178-54	TRANSISTOR 2SC2785		R1788	1-249-413-11	CARBON	470 5% 1/6W
Q1804	8-729-178-54	TRANSISTOR 2SC2785		R1794	1-247-895-00	CARBON	470K 5% 1/6W
Q1805	8-729-178-54	TRANSISTOR 2SC2785		R1795	1-249-422-11	CARBON	2.7K 5% 1/6W
Q1806	8-729-178-54	TRANSISTOR 2SC2785		R1796	1-249-440-11	CARBON	82K 5% 1/6W
Q1807	8-729-178-54	TRANSISTOR 2SC2785		R1797	1-249-434-11	CARBON	27K 5% 1/6W
Q1808	8-729-178-54	TRANSISTOR 2SC2785		R1798	1-249-425-11	CARBON	4.7K 5% 1/6W
Q1809	8-729-178-54	TRANSISTOR 2SC2785		R1799	1-249-419-11	CARBON	1.5K 5% 1/6W
Q1810	8-729-178-54	TRANSISTOR 2SC2785		R1800	1-249-425-11	CARBON	4.7K 5% 1/6W
Q1811	8-729-178-54	TRANSISTOR 2SC2785		R1801	1-249-440-11	CARBON	82K 5% 1/6W
Q1812	8-729-178-54	TRANSISTOR 2SC2785		R1802	1-249-434-11	CARBON	27K 5% 1/6W
Q1813	8-729-178-54	TRANSISTOR 2SC2785		R1804	1-249-429-11	CARBON	10K 5% 1/6W
Q1814	8-729-178-54	TRANSISTOR 2SC2785		R1805	1-249-429-11	CARBON	10K 5% 1/6W
Q1815	8-729-178-54	TRANSISTOR 2SC2785		R1806	1-249-406-11	CARBON	120 5% 1/6W
Q1816	8-729-178-54	TRANSISTOR 2SC2785		R1807	1-247-849-00	CARBON	5.6K 5% 1/6W
Q1817	8-729-178-54	TRANSISTOR 2SC2785		R1808	1-247-849-00	CARBON	5.6K 5% 1/6W
Q1818	8-729-900-36	TRANSISTOR DTC124ES		R1809	1-249-408-11	CARBON	180 5% 1/6W
Q1819	8-729-900-36	TRANSISTOR DTC124ES		R1810	1-215-422-00	CARBON	1.1K 5% 1/6W
Q1820	8-729-900-36	TRANSISTOR DTC124ES		R1811	1-249-413-11	CARBON	470 5% 1/6W
Q1822	8-729-178-54	TRANSISTOR 2SC2785		R1813	1-249-413-11	CARBON	470 5% 1/6W
Q1823	8-729-178-54	TRANSISTOR 2SC2785		R1814	1-249-413-11	CARBON	470 5% 1/6W
Q1825	8-729-178-54	TRANSISTOR 2SC2785		R1815	1-249-412-11	CARBON	390 5% 1/6W
Q1826	8-729-178-54	TRANSISTOR 2SC2785		R1816	1-249-413-11	CARBON	470 5% 1/6W
Q1827	8-729-178-54	TRANSISTOR 2SC2785		R1817	1-215-422-00	CARBON	1.1K 5% 1/6W
Q1828	8-729-178-54	TRANSISTOR 2SC2785		R1819	1-249-413-11	CARBON	470 5% 1/6W
Q1829	8-729-178-54	TRANSISTOR 2SC2785		R1820	1-249-406-11	CARBON	120 5% 1/6W
Q1830	8-729-177-43	TRANSISTOR 2SD774		R1821	1-249-406-11	CARBON	120 5% 1/6W
Q1831	8-729-900-36	TRANSISTOR DTC124ES		R1822	1-249-406-11	CARBON	120 5% 1/6W
Q1832	8-729-178-54	TRANSISTOR 2SC2785		R1823	1-249-406-11	CARBON	120 5% 1/6W
Q1891	8-729-900-36	TRANSISTOR DTC124ES		R1824	1-247-881-00	CARBON	120K 5% 1/6W
<u>CONNECTOR</u>							
QB11	*1-566-058-11	PIN, CONNECTOR 6P		R1825	1-247-881-00	CARBON	120K 5% 1/6W
QB12	*1-566-056-11	PIN, CONNECTOR 4P		R1826	1-247-881-00	CARBON	120K 5% 1/6W
QB13	*1-566-056-11	PIN, CONNECTOR 4P		R1827	1-249-429-11	CARBON	10K 5% 1/6W
QB14	*1-566-054-11	PIN, CONNECTOR 2P		R1828	1-249-417-11	CARBON	1K 5% 1/6W
QB15	*1-566-057-11	PIN, CONNECTOR 5P		R1829	1-249-429-11	CARBON	10K 5% 1/6W
QB16	*1-566-056-11	PIN, CONNECTOR 4P		R1830	1-249-429-11	CARBON	10K 5% 1/6W
QB17	*1-566-059-11	PIN, CONNECTOR 7P		R1831	1-249-417-11	CARBON	1K 5% 1/6W
<u>RESISTOR</u>							
R1771	1-249-469-11	CARBON	100K 5% 1/4W	R1832	1-249-429-11	CARBON	10K 5% 1/6W
R1776	1-249-405-11	CARBON	100 5% 1/6W	R1833	1-249-417-11	CARBON	1K 5% 1/6W
R1777	1-249-405-11	CARBON	100 5% 1/6W	R1834	1-249-417-11	CARBON	1K 5% 1/6W
R1778	1-249-405-11	CARBON	100 5% 1/6W	R1835	1-249-428-11	CARBON	8.2K 5% 1/6W
R1779	1-249-441-11	CARBON	100K 5% 1/6W	R1836	1-249-422-11	CARBON	2.7K 5% 1/6W
R1780	1-249-433-11	CARBON	22K 5% 1/6W	R1837	1-249-417-11	CARBON	1K 5% 1/6W
R1781	1-249-441-11	CARBON	100K 5% 1/6W	R1838	1-247-849-00	CARBON	5.6K 5% 1/6W
R1782	1-249-425-11	CARBON	4.7K 5% 1/6W	R1839	1-247-849-00	CARBON	5.6K 5% 1/6W
R1783	1-249-469-11	CARBON	100K 5% 1/4W	R1841	1-249-433-11	CARBON	22K 5% 1/6W
R1784	1-249-433-11	CARBON	22K 5% 1/6W	R1842	1-249-433-11	CARBON	22K 5% 1/6W
				R1843	1-249-462-11	CARBON	22K 5% 1/4W
				R1844	1-249-405-11	CARBON	100 5% 1/6W
				R1845	1-249-433-11	CARBON	22K 5% 1/6W
				R1846	1-247-714-11	CARBON	1.2K 5% 1/4W

**QB C**

**C**

<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
C706	1-129-751-00	FILM	0.1MF	10%	400V	<u>RESISTOR</u>	
C707	1-102-116-00	CERAMIC	680PF	10%	50V	R701	1-216-397-11 METAL OXIDE 4.7 5% 3W F
C708	1-102-116-00	CERAMIC	680PF	10%	50V	R702	1-202-848-00 SOLID 680K 10% 1/2W
C709	1-102-116-00	CERAMIC	680PF	10%	50V	R703	1-202-838-00 SOLID 100K 10% 1/2W
C710	1-102-116-00	CERAMIC	680PF	10%	50V	R704	1-202-846-00 SOLID 470K 10% 1/2W
C711	1-123-356-00	ELECT	10MF	20%	25V	R705	1-202-549-00 SOLID 100 5% 1/2W
C712	1-102-114-00	CERAMIC	470PF	10%	50V	R706	1-202-838-00 SOLID 100K 10% 1/2W
C713	1-102-116-00	CERAMIC	680PF	10%	50V	R707	1-202-842-11 SOLID 220K 1/2W
C714	1-162-622-11	CERAMIC	330PF	10%	6.3KV	R708	1-202-818-00 SOLID 1K 1/2W
C715	1-102-125-00	CERAMIC	0.0047MF	10%	50V	R709	1-202-818-00 SOLID 1K 1/2W
C718	1-102-074-00	CERAMIC	0.001MF	10%	50V	R710	1-202-818-00 SOLID 1K 1/2W
C719	1-102-050-00	CERAMIC	0.01MF		500V	R711	1-202-837-00 SOLID 82K 10% 1/2W
<u>DIODE</u>							
D701	8-719-911-19	DIODE	ISS119			R712	1-202-842-11 SOLID 220K 1/2W
D702	8-719-911-19	DIODE	ISS119			R713	1-216-486-00 METAL OXIDE 8.2K 5% 3W F
D703	8-719-911-19	DIODE	ISS119			R714	1-249-409-11 CARBON 220 5% 1/6W
D704	8-719-911-19	DIODE	ISS119			R716	1-216-486-00 METAL OXIDE 8.2K 5% 3W F
D705	8-719-911-19	DIODE	ISS119			R717	1-249-409-11 CARBON 220 5% 1/6W
D706	8-719-911-19	DIODE	ISS119			R720	1-216-486-00 METAL OXIDE 8.2K 5% 3W F
D707	8-719-911-19	DIODE	ISS119			R721	1-249-409-11 CARBON 220 5% 1/6W
D708	8-719-911-19	DIODE	ISS119			R722	1-249-405-11 CARBON 100 5% 1/6W
D709	8-719-911-19	DIODE	ISS119			R723	1-249-405-11 CARBON 100 5% 1/6W
D710	8-719-901-83	DIODE	ISS83			R724	1-249-405-11 CARBON 100 5% 1/6W
D711	8-719-901-83	DIODE	ISS83			R725	1-249-429-11 CARBON 10K 5% 1/6W
D712	8-719-901-83	DIODE	ISS83			R726	1-249-409-11 CARBON 220 5% 1/6W
D713	8-719-901-83	DIODE	ISS83			R727	1-249-429-11 CARBON 10K 5% 1/6W
<u>COIL</u>							
L701	1-407-711-00	MICRO INDUCTOR	330UH			R728	1-215-404-00 CARBON 200 5% 1/6W
L702	1-407-705-00	MICRO INDUCTOR	100UH			R729	1-249-385-11 CARBON 2.2 5% 1/6W
L703	1-407-703-00	MICRO INDUCTOR	68UH			R730	1-249-408-11 CARBON 180 5% 1/6W
L704	1-408-442-11	MICRO INDUCTOR	10UH			R731	1-247-704-11 CARBON 220 5% 1/4W F
L705	1-408-404-00	MICRO INDUCTOR	3.9UH			R732	1-247-704-11 CARBON 220 5% 1/4W F
L706	1-407-705-00	MICRO INDUCTOR	100UH			R733	1-247-704-11 CARBON 220 5% 1/4W F
L707	1-408-434-00	MICRO INDUCTOR	2.2UH			R734	1-247-717-11 CARBON 2.2K 5% 1/4W
<u>TRANSISTOR</u>							
Q701	8-729-326-11	TRANSISTOR	2SC2611			R735	1-247-138-00 CARBON 2K 5% 1/4W
Q702	8-729-178-54	TRANSISTOR	2SC2785			R736	1-247-717-11 CARBON 2.2K 5% 1/4W
Q703	8-729-200-17	TRANSISTOR	2SA1091			R737	1-249-441-11 CARBON 100K 5% 1/6W
Q704	8-729-326-11	TRANSISTOR	2SC2611			R739	1-247-887-00 CARBON 220K 5% 1/6W
Q705	8-729-178-54	TRANSISTOR	2SC2785			R740	1-215-902-11 METAL OXIDE 47K 5% 2W F
Q706	8-729-200-17	TRANSISTOR	2SA1091			R741	1-249-438-11 CARBON 56K 5% 1/6W
Q707	8-729-200-17	TRANSISTOR	2SA1091			R742	1-249-429-11 CARBON 10K 5% 1/6W F
Q708	8-729-326-11	TRANSISTOR	2SC2611			R743	1-249-429-11 CARBON 10K 5% 1/6W F
Q709	8-729-178-54	TRANSISTOR	2SC2785			R744	1-247-725-11 CARBON 10K 5% 1/4W F
Q710	8-729-255-12	TRANSISTOR	2SC2551			R745	1-247-713-11 CARBON 1K 5% 1/4W F
Q712	8-729-255-12	TRANSISTOR	2SC2551			R746	1-215-879-51 METAL OXIDE 47K 5% 1W F
Q714	8-729-200-17	TRANSISTOR	2SA1091			R747	1-247-725-11 CARBON 10K 5% 1/4W F
Q715	8-729-200-17	TRANSISTOR	2SA1091			R775	1-247-779-00 CARBON 6.8 5% 1/6W
Q716	8-729-200-17	TRANSISTOR	2SA1091			R776	1-247-779-00 CARBON 6.8 5% 1/6W
<u>VARIABLE RESISTOR</u>							
RV701	1-226-114-00	RES, ADJ, METAL GLAZE	2.2M			R777	1-249-441-11 CARBON 100K 5% 1/6W
RV702	1-230-619-11	RES, ADJ, METAL GLAZE	110M			R799	1-202-842-11 SOLID 220K 5% 1/2W

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<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>			<u>Remark</u>	<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>			<u>Remark</u>							
RV703	1-228-731-00	RES, ADJ, CERAMIC	CARBON	470K		C564	1-102-244-00	CERAMIC	220PF	10%	500V							
RV705	1-228-729-00	RES, ADJ, CERAMIC	CARBON	220K		C566	1-106-367-00	MYLAR	0.01MF	10%	100V							
RV706	1-228-724-00	RES, ADJ, CERAMIC	CARBON	10K		C568	1-106-212-00	MYLAR	0.047MF	10%	100V							
*****																		
*A-1345-708-A D BOARD, COMPLETE																		
*****																		
<u>CAPACITOR</u>																		
C503	1-108-614-91	MYLAR	0.001MF	10%	100V	C572	1-102-244-00	CERAMIC	220PF	10%	500V							
C505	1-106-212-00	MYLAR	0.047MF	10%	100V	C573	1-123-935-00	ELECT	33MF	20%	160V							
C506	1-124-902-00	ELECT	0.47MF	20%	50V	C574	1-106-369-00	MYLAR	0.012MF	10%	200V							
C507	1-123-369-00	ELECT	4.7MF	20%	25V	C575	1-123-024-00	ELECT	33MF	10%	160V							
C508	1-108-627-91	MYLAR	0.012MF	10%	100V	C576	1-162-114-00	CERAMIC	0.0047MF	10%	2KV							
C509	1-106-220-00	MYLAR	0.1MF	10%	100V	C578	1-124-902-00	ELECT	0.47MF	20%	50V							
C510	1-106-367-00	MYLAR	0.01MF	10%	100V	C579	1-102-030-00	CERAMIC	330PF	10%	500V							
C511	1-123-330-00	ELECT	22MF	20%	16V	C580	1-108-689-11	MYLAR	0.0056MF	10%	200V							
C512	1-124-927-11	ELECT	4.7MF	20%	50V	C581	1-136-512-11	FILM	0.0106MF	3%	1.4KV							
C513	1-130-868-00	FILM	0.0056MF	5%	50V	C582	1-162-135-11	CERAMIC	560PF	10%	2KV							
C514	1-123-356-00	ELECT	10MF	20%	16V	C583	1-106-367-00	MYLAR	0.01MF	10%	100V							
C515	1-123-356-00	ELECT	10MF	20%	16V	C586	1-162-115-00	CERAMIC	330PF	10%	2KV							
C516	1-102-820-00	CERAMIC	330PF	5%	50V	C587	1-129-747-00	FILM	0.047MF	10%	400V							
C517	1-124-475-11	ELECT	470MF	20%	16V	C588	1-136-513-11	FILM	0.82MF	5%	200V							
C518	1-106-371-00	MYLAR	0.015MF	10%	100V	C589	1-136-116-00	FILM	1MF	5%	200V							
C519	1-136-173-00	FILM	0.47MF	5%	50V	C590	1-123-356-00	ELECT	10MF	20%	25V							
C520	1-124-902-00	ELECT	0.47MF	20%	50V	C593	1-124-555-00	ELECT	1000MF	20%	16V							
C521	1-124-902-00	ELECT	0.47MF	20%	50V	C598	1-123-332-00	ELECT	47MF	20%	16V							
C522	1-124-791-11	ELECT	1MF	20%	50V	C510	1-106-367-00	MYLAR	0.01MF	10%	100V							
C523	1-106-367-00	MYLAR	0.01MF	10%	100V	C515	1-124-477-11	ELECT	47MF	20%	25V							
C524	1-108-622-91	MYLAR	0.0047MF	10%	100V	C520	1-123-875-91	ELECT	10MF	20%	50V							
C525	1-108-425-00	MYLAR	0.022MF	10%	200V	C521	1-108-855-00	MYLAR	0.33MF	10%	50V							
C526	1-123-321-00	ELECT	220MF	20%	16V	C522	1-108-837-00	MYLAR	0.01MF	10%	50V							
C531	1-123-356-00	ELECT	10MF	20%	50V	C524	1-106-172-00	MYLAR	0.001MF	5%	50V							
C532	1-124-005-11	ELECT	4.7MF	20%	50V	C525	1-124-927-11	ELECT	4.7MF	20%	50V							
C535	1-131-501-00	TANTALUM	3.3MF	10%	10V	C526	1-102-971-00	CERAMIC	82PF	5%	50V							
C536	1-131-375-00	TANTALUM	4.7MF	10%	6.3V	C527	1-123-356-00	ELECT	10MF	20%	50V							
C537	1-123-875-91	ELECT	10MF	20%	50V	C528	1-123-356-00	ELECT	10MF	20%	50V							
C538	1-124-117-00	ELECT	680MF	10%	25V	C529	1-124-791-11	ELECT	1MF	20%	50V							
C542	1-123-356-00	ELECT	10MF	20%	16V	C531	1-102-231-11	CERAMIC	47PF	10%	500V							
C544	1-130-996-00	FILM	0.047MF	5%	50V	C532	1-124-445-00	ELECT	100MF	20%	16V							
C546	1-124-477-11	ELECT	47MF	20%	25V	C537	1-108-845-00	MYLAR	0.047MF	10%	50V							
C551	1-108-630-91	MYLAR	0.022MF	10%	100V	<u>CONNECTOR</u>												
C552	1-102-030-00	CERAMIC	330PF	10%	500V	D1	*1-508-766-00	4P PLUG (M)										
C553	1-106-192-00	MYLAR	0.0068MF	10%	100V	D2	*1-566-055-11	PIN, CONNECTOR 3P										
C554	1-123-345-00	ELECT	100MF	20%	35V	D3	*1-566-054-11	PIN, CONNECTOR 2P										
C556	1-123-943-00	ELECT	1MF	20%	250V	D4	*1-508-767-00	5P PLUG										
C557	1-123-356-00	ELECT	10MF	20%	25V	D5	*1-508-765-00	3P PLUG (M)										
C558	1-123-356-00	ELECT	10MF	20%	16V	D6	*1-564-038-00	CONNECTOR PLUG, DY (MINI) 6P										
C559	1-124-192-00	ELECT	4.7MF	20%	50V	D7	*1-566-056-11	PIN, CONNECTOR 4P										
C560	1-106-208-00	MYLAR	0.033MF	10%	100V	D9	*1-566-055-11	PIN, CONNECTOR 3P										
C561	1-108-614-91	MYLAR	0.001MF	10%	100V	D10	*1-508-766-00	4P PLUG (M)										
C562	1-108-616-91	MYLAR	0.0015MF	10%	100V	D11	*1-508-765-00	3P PLUG (M)										
C563	1-123-943-00	ELECT	1MF	20%	250V													

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<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>				
D14	*1-566-054-11	PIN, CONNECTOR 2P <u>DIODE</u>		L564	1-407-717-00	MICRO INDUCTOR 1MMH					
D501	8-719-911-19	DIODE 1SS119		L1510	1-459-115-00	COIL, DCC-H					
<u>NEON LAMP</u>											
D502	8-719-911-55	DIODE U05G		NL601	1-519-237-11	LAMP, NEON					
D504	8-719-911-19	DIODE 1SS119		<u>TRANSISTOR</u>							
D505	8-719-911-19	DIODE 1SS119		Q505	8-729-178-54	TRANSISTOR 2SC2785					
D507	8-719-100-35	DIODE RD5.6E-B2		Q506	8-729-178-54	TRANSISTOR 2SC2785					
D509	8-719-110-06	DIODE RD8.2ES-B1		Q507	8-729-178-54	TRANSISTOR 2SC2785					
D510	8-719-911-19	DIODE 1SS119		Q508	8-729-117-54	TRANSISTOR 2SA1175					
D551	8-719-911-55	DIODE U05G		Q551	8-729-168-82	TRANSISTOR 2SC2688					
D554	8-719-300-65	DIODE ES1F		Q552	8-729-203-80	TRANSISTOR 2SD1555-LB-S1					
D557	8-719-918-77	DIODE V19G		4-367-513-00		SPACER, MICA; Q552					
D558	8-719-300-76	DIODE RH1A		Q553	8-729-313-42	TRANSISTOR 2SD1134					
D560	8-719-305-15	DIODE GH3F		Q1510	8-729-117-54	TRANSISTOR 2SA1175					
D561	8-719-928-08	DIODE ERD28-08S		Q1511	8-729-178-54	TRANSISTOR 2SC2785					
D562	8-719-300-65	DIODE ES1F		Q1512	8-729-900-36	TRANSISTOR DTC124ES					
D1510	8-719-911-55	DIODE U05G		Q1513	8-729-900-63	TRANSISTOR DTA124ES					
D1511	8-719-911-19	DIODE 1SS119		Q1514	8-729-900-36	TRANSISTOR DTC124ES					
D1512	8-719-911-19	DIODE 1SS119		Q1515	8-729-900-36	TRANSISTOR DTC124ES					
D1513	8-719-911-55	DIODE U05G		Q1516	8-729-105-73	TRANSISTOR 2SK523-L2					
D1514	8-719-911-55	DIODE U05G		Q1517	8-729-900-36	TRANSISTOR DTC124ES					
D1516	8-759-157-40	DIODE UPC574J		Q1518	8-729-900-36	TRANSISTOR DTC124ES					
D1517	8-719-918-77	DIODE V19G		Q1519	8-729-178-54	TRANSISTOR 2SC2785					
D1518	8-719-918-77	DIODE V19G		Q1520	8-729-178-54	TRANSISTOR 2SC2785					
D1521	8-719-911-19	DIODE 1SS119		Q1521	8-729-117-54	TRANSISTOR 2SA1175					
D1522	8-719-000-12	DIODE MC931		Q1522	8-729-177-43	TRANSISTOR 2SD774					
<u>FUSE</u>											
F501	▲1-532-285-11	FUSE, TIME-LAG 1.25A/250V		Q1523	8-729-103-43	TRANSISTOR 2SB734					
<u>RESISTOR</u>											
<u>IC</u>											
IC501	8-759-100-60	IC UPC1377C		R501	1-247-725-11	CARBON	10K	5%	1/4W		
IC502	8-759-170-12	IC UPC78M12H		R503	1-249-422-11	CARBON	2.7K	5%	1/6W		
IC551	8-759-105-82	IC UPC1378H-P		R504	1-249-411-11	CARBON	330	5%	1/6W		
3-701-833-01 HEAD, WASHER, TAPPING SCREW; IC551											
IC552	8-759-145-58	IC UPC4558C		R505	1-247-702-11	CARBON	150	5%	1/4W		
IC1510	8-759-145-58	IC UPC4558C		R506	1-247-700-11	CARBON	100	5%	1/4W		
IC1511	8-759-145-58	IC UPC4558C		R507	1-246-536-00	CARBON	430K	5%	1/4W		
IC1512	8-759-909-70	IC CX23025		R508	1-249-462-11	CARBON	22K	5%	1/4W		
<u>COIL</u>											
L551	1-459-678-11	HLC		R509	1-249-433-11	CARBON	22K	5%	1/6W		
L552	1-459-390-00	COIL (WITH CORE)		R510	1-247-881-00	CARBON	120K	5%	1/6W		
L555	1-408-227-00	MICRO INDUCTOR 470UH		R511	1-247-868-00	CARBON	36K	5%	1/6W		
L556	1-407-699-00	MICRO INDUCTOR 33UH		R512	1-249-411-11	CARBON	330	5%	1/6W		
L557	1-459-407-00	COIL, FERRITE CHOKE		R513	1-249-468-11	CARBON	82K	5%	1/4W		
L558	1-407-365-00	COIL, CHOKE		R514	1-247-723-11	CARBON	6.8K	5%	1/4W		
L559	1-407-364-00	COIL, SPOOK CHOKE 3.3UH		R515	1-249-459-11	CARBON	12K	5%	1/4W		
L560	1-407-695-00	MICRO INDUCTOR 15UH		R516	1-249-435-11	CARBON	33K	5%	1/6W		
L562	1-408-239-00	MICRO INDUCTOR 4.7MMH		R517	1-249-407-11	CARBON	150	5%	1/6W		
L563	1-459-075-00	COIL, DYNAMIC CONVERSION CHOKE		R518	1-247-701-11	CARBON	120	5%	1/4W		
F											
R519	1-247-849-00	CARBON	5.6K	5%	1/6W						
R520	1-249-419-11	CARBON	1.5K	5%	1/6W						
R521	1-249-417-11	CARBON	1K	5%	1/6W						
R522	1-249-439-11	CARBON	68K	5%	1/6W						

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

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Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R523	1-215-447-00	METAL	12K 1% 1/6W	R583	1-249-433-11	CARBON	22K 5% 1/6W	R1547	1-249-429-11	CARBON	10K 5% 1/6W	*A-1375-066-A	HC BOARD, COMPLETE	*****	
R524	1-214-756-00	METAL	13K 1% 1/4W	R584	1-246-511-00	CARBON	39K 5% 1/4W	R1548	1-215-493-00	CARBON	1M 5% 1/6W	C982	1-130-023-00	FILM	0.0027MF 5% 50V
R525	1-249-429-11	CARBON	10K 5% 1/6W	R585	1-247-719-11	CARBON	3.3K 5% 1/4W	R1550	1-247-895-00	CARBON	470K 5% 1/6W	C983	1-130-028-00	FILM	0.0068MF 5% 50V
R526	1-215-876-00	METAL OXIDE	15K 5% 1W	R586	1-249-428-11	CARBON	8.2K 5% 1/6W	R1551	1-249-437-11	CARBON	47K 5% 1/6W	C984	1-108-837-00	MYLAR	0.01MF 10% 50V
R527	1-249-412-11	CARBON	390 5% 1/6W	R587	1-246-523-00	CARBON	120K 5% 1/4W	R1552	1-247-849-00	CARBON	5.6K 5% 1/6W	C985	1-123-617-00	ELECT	10MF 20% 16V
R528	1-249-405-11	CARBON	100 5% 1/6W	R588	1-249-422-11	CARBON	2.7K 5% 1/6W	R1553	1-247-881-00	CARBON	120K 5% 1/6W	C986	1-123-356-00	ELECT	10MF 20% 25V
R529	1-214-743-00	METAL	3.9K 1% 1/4W	R589	1-249-424-11	CARBON	3.9K 5% 1/6W	R1558	1-247-887-00	CARBON	220K 5% 1/6W				
R530	1-214-753-00	METAL	10K 1% 1/4W	R590	1-249-421-11	CARBON	2.2K 5% 1/6W	R1559	1-249-441-11	CARBON	100K 5% 1/6W				
R534	1-214-747-00	METAL	5.6K 1% 1/4W	R592	1-215-871-11	METAL OXIDE	2.2K 5% 1W	R1560	1-249-419-11	CARBON	1.5K 5% 1/6W				
R535	1-249-424-11	CARBON	3.9K 5% 1/6W	R593	1-249-417-11	CARBON	1K 5% 1/6W	R1561	1-249-435-11	CARBON	33K 5% 1/6W				
R536	1-247-849-00	CARBON	5.6K 5% 1/6W	R594	1-249-435-11	CARBON	33K 5% 1/6W	R1562	1-249-440-11	CARBON	82K 5% 1/6W				
R537	1-249-429-11	CARBON	10K 5% 1/6W	R595	1-249-421-11	CARBON	2.2K 5% 1/6W	R1563	1-249-409-11	CARBON	220 5% 1/6W	D971	8-719-109-85	DIODE RD5.1ES-B2	
R538	1-216-350-11	METAL OXIDE	1.2 5% 1W	R596	1-249-420-11	CARBON	1.8K 5% 1/6W	R1565	1-216-349-00	METAL OXIDE	1 5% 1W				
R539	1-249-413-11	CARBON	470 5% 1/6W	R597	1-249-409-11	CARBON	220 5% 1/6W	R1566	1-216-430-11	METAL OXIDE	390 5% 1W				
R540	1-247-872-00	CARBON	51K 5% 1/6W	R598	1-246-525-00	CARBON	150K 5% 1/4W	R1567	1-216-430-11	METAL OXIDE	390 5% 1W				
R541	1-249-429-11	CARBON	10K 5% 1/6W	R599	1-249-431-11	CARBON	15K 5% 1/6W	R1568	1-249-419-11	CARBON	1.5K 5% 1/6W	HC1	*1-566-057-11	PIN, CONNECTOR 5P	
R542	1-214-779-00	METAL	120K 1% 1/4W	R1501	1-215-469-00	METAL	100K 1% 1/6W	R1569	1-249-417-11	CARBON	1K 5% 1/6W	HC2	*1-566-056-11	PIN, CONNECTOR 4P	
R543	1-215-493-00	CARBON	1M 5% 1/6W	R1502	1-215-451-00	METAL	18K 1% 1/6W	R1570	1-249-382-11	CARBON	1.2 5% 1/6W	HC3	*1-566-054-11	PIN, CONNECTOR 2P	
R544	1-214-781-00	METAL	150K 1% 1/4W	R1503	1-247-722-11	CARBON	5.6K 5% 1/4W	R1571	1-249-382-11	CARBON	1.2 5% 1/6W	HC4	*1-566-054-11	PIN, CONNECTOR 2P	
R545	1-214-765-00	METAL	33K 1% 1/4W	R1505	1-215-869-11	METAL OXIDE	1K 5% 1W	R1572	1-247-883-00	CARBON	150K 5% 1/6W				
R546	1-249-424-11	CARBON	3.9K 5% 1/6W	R1510	1-249-429-11	CARBON	10K 5% 1/6W	R1573	1-247-773-00	CARBON	3.9 5% 1/6W	IC985	8-759-933-23	IC BA236	
R547	1-249-429-11	CARBON	10K 5% 1/6W	R1511	1-249-437-11	CARBON	47K 5% 1/6W	R1583	1-249-429-11	CARBON	10K 5% 1/6W				
R548	1-249-421-11	CARBON	2.2K 5% 1/6W	R1515	1-249-429-11	CARBON	10K 5% 1/6W	R1584	1-249-413-11	CARBON	470 5% 1/6W				
R549	1-247-704-11	CARBON	220 5% 1/4W	R1516	1-249-433-11	CARBON	22K 5% 1/6W	R1585	1-249-417-11	CARBON	1K 5% 1/6W				
R551	1-214-681-00	METAL	10 1% 1/4W	R1517	1-249-430-11	CARBON	12K 5% 1/6W	R1586	1-247-713-11	CARBON	1K 5% 1/4W	R982	1-249-429-11	CARBON	10K 5% 1/6W
R553	1-247-746-11	CARBON	390 5% 1/2W	R1518	1-249-425-11	CARBON	4.7K 5% 1/6W	R1587	1-249-424-11	CARBON	3.9K 5% 1/6W	R983	1-249-417-11	CARBON	1K 5% 1/6W
R554	1-246-533-00	CARBON	330K 5% 1/4W	R1519	1-249-429-11	CARBON	10K 5% 1/6W	R1588	1-249-416-11	CARBON	820 5% 1/6W	R984	1-249-429-11	CARBON	10K 5% 1/6W
R555	1-249-431-11	CARBON	15K 5% 1/6W	R1520	1-247-895-00	CARBON	470K 5% 1/6W					R985	1-249-417-11	CARBON	1K 5% 1/6W
R556	1-246-523-00	CARBON	120K 5% 1/4W	R1521	1-249-429-11	CARBON	10K 5% 1/6W					R986	1-249-429-11	CARBON	10K 5% 1/6W
R557	1-249-432-11	CARBON	18K 5% 1/6W	R1522	1-249-409-11	CARBON	220 5% 1/6W	RV501	1-228-723-00	RES, ADJ, CERAMIC	4.7K CARBON	R988	1-249-405-11	CARBON	100 5% 1/6W
R558	1-249-437-11	CARBON	47K 5% 1/6W	R1523	1-249-441-11	CARBON	100K 5% 1/6W	RV503	1-228-717-00	RES, ADJ, CERAMIC	220 CARBON	R989	1-249-417-11	CARBON	1K 5% 1/6W
R559	1-215-479-00	CARBON	270K 5% 1/6W	R1524	1-249-437-11	CARBON	47K 5% 1/6W	RV509	1-224-249-XX	RES, ADJ, METAL GLAZE	1K CARBON	R990	1-249-432-11	CARBON	18K 5% 1/6W
R560	1-247-895-00	CARBON	470K 5% 1/6W	R1525	1-249-425-11	CARBON	4.7K 5% 1/6W	RV552	1-228-725-00	RES, ADJ, CERAMIC	22K CARBON	R991	1-249-408-11	CARBON	180 5% 1/6W
R561	1-249-429-11	CARBON	10K 5% 1/6W	R1526	1-249-435-11	CARBON	33K 5% 1/6W	RV553	1-228-720-00	RES, ADJ, CERAMIC	1K CARBON	R992	1-249-427-11	CARBON	6.8K 5% 1/6W
R562	1-249-425-11	CARBON	4.7K 5% 1/6W	R1527	1-249-421-11	CARBON	2.2K 5% 1/6W	RV554	1-228-727-00	RES, ADJ, CERAMIC	47K CARBON	R993	1-249-418-11	CARBON	1.2K 5% 1/6W
R564	1-247-719-11	CARBON	3.3K 5% 1/4W	R1528	1-249-438-11	CARBON	56K 5% 1/6W	RV555	1-228-722-00	RES, ADJ, CERAMIC	3.3K CARBON	R994	1-249-420-11	CARBON	1.8K 5% 1/6W
R565	1-216-428-00	METAL OXIDE	180 5% 1W	R1529	1-249-431-11	CARBON	15K 5% 1/6W								
R567	1-249-429-11	CARBON	10K 5% 1/6W	R1530	1-249-423-11	CARBON	3.3K 5% 1/6W	SG551	1-519-063-XX	DISCHARGING GAP					
R568	1-247-715-11	CARBON	1.5K 5% 1/4W	R1532	1-249-431-11	CARBON	15K 5% 1/6W								
R569	1-249-410-11	CARBON	2												

**PVM-2130QM**  
**RM-668**

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**PVM-2130QM**  
**RM-668**

**HA** **HB**

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark				
D920	9-990-893-01	LED TLY263P		D945	8-719-911-19	DIODE 1SS119					
D921	9-990-893-01	LED TLY263P		D946	8-719-911-19	DIODE 1SS119					
D922	9-990-893-01	LED TLY263P		D947	8-719-911-19	DIODE 1SS119					
D923	9-990-893-01	LED TLY263P		D948	9-990-901-01	LED TLS263P					
D924	9-990-893-01	LED TLY263P		D949	9-990-901-01	LED TLS263P					
D925	9-990-893-01	LED TLY263P		D950	9-990-893-01	LED TLY263P					
D926	9-990-893-01	LED TLY263P		D951	9-990-893-01	LED TLY263P					
D927	9-990-893-01	LED TLY263P		D952	9-990-893-01	LED TLY263P					
D928	9-990-893-01	LED TLY263P		D953	9-990-893-01	LED TLY263P					
D929	9-990-893-01	LED TLY263P		D954	9-990-893-01	LED TLY263P					
D930	9-990-893-01	LED TLY263P		D955	9-990-893-01	LED TLY263P					
D931	9-990-893-01	LED TLY263P		D956	9-990-893-01	LED TLY263P					
<u>RESISTOR</u>											
R905	1-247-700-11	CARBON	100 5% 1/4W	D960	9-990-893-01	LED TLY263P					
R906	1-247-704-11	CARBON	220 5% 1/4W	D961	9-990-893-01	LED TLY263P					
R907	1-247-700-11	CARBON	100 5% 1/4W	D962	9-990-893-01	LED TLY263P					
R908	1-247-704-11	CARBON	220 5% 1/4W	D963	9-990-893-01	LED TLY263P					
R909	1-247-700-11	CARBON	100 5% 1/4W	D964	9-990-893-01	LED TLY263P					
R910	1-247-704-11	CARBON	220 5% 1/4W	D965	9-990-893-01	LED TLY263P					
R911	1-247-700-11	CARBON	100 5% 1/4W	D968	9-990-901-01	LED TLS263P					
R912	1-247-704-11	CARBON	220 5% 1/4W	<u>RESISTOR</u>							
R913	1-247-700-11	CARBON	100 5% 1/4W	R915	1-247-700-11	CARBON	180 5% 1/4W				
R914	1-247-704-11	CARBON	220 5% 1/4W	R916	1-247-704-11	CARBON	100 5% 1/4W				
R915	1-247-700-11	CARBON	100 5% 1/4W	R917	1-247-704-11	CARBON	220 5% 1/4W				
R916	1-247-704-11	CARBON	220 5% 1/4W	R918	1-247-700-11	CARBON	100 5% 1/4W				
R917	1-247-704-11	CARBON	220 5% 1/4W	R919	1-247-704-11	CARBON	220 5% 1/4W				
R918	1-247-704-11	CARBON	220 5% 1/4W	R919	1-247-704-11	CARBON	220 5% 1/4W				
R919	1-247-704-11	CARBON	220 5% 1/4W	<u>SWITCH</u>							
<u>SWITCH</u>											
S905	1-553-766-00	MT SWITCH (KEY BOARD SWITCH)		R945	1-247-700-11	CARBON	100 5% 1/4W				
S906	1-553-766-00	MT SWITCH (KEY BOARD SWITCH)		R946	1-247-700-11	CARBON	100 5% 1/4W				
S907	1-553-766-00	MT SWITCH (KEY BOARD SWITCH)		R947	1-247-700-11	CARBON	100 5% 1/4W				
S908	1-553-766-00	MT SWITCH (KEY BOARD SWITCH)		R948	1-247-700-11	CARBON	100 5% 1/4W				
S909	1-553-766-00	MT SWITCH (KEY BOARD SWITCH)		R949	1-247-700-11	CARBON	100 5% 1/4W				
S910	1-553-766-00	MT SWITCH (KEY BOARD SWITCH)		R950	1-247-700-11	CARBON	100 5% 1/4W				
S911	1-553-766-00	MT SWITCH (KEY BOARD SWITCH)		R951	1-247-700-11	CARBON	100 5% 1/4W				
S912	1-553-766-00	MT SWITCH (KEY BOARD SWITCH)		<u>SWITCH</u>							
S913	1-553-766-00	MT SWITCH (KEY BOARD SWITCH)		S940	1-553-766-00	MT SWITCH (KEY BOARD SWITCH)					
S914	1-553-766-00	MT SWITCH (KEY BOARD SWITCH)		S941	1-553-766-00	MT SWITCH (KEY BOARD SWITCH)					
S915	1-553-766-00	MT SWITCH (KEY BOARD SWITCH)		S942	1-553-766-00	MT SWITCH (KEY BOARD SWITCH)					
*****											
*9-992-401-01 HB BOARD (KEY BOARD UNIT B)											
*****											
<u>DIODE</u>											
D940	8-719-911-19	DIODE 1SS119		S945	1-553-766-00	MT SWITCH (KEY BOARD SWITCH)					
D941	8-719-911-19	DIODE 1SS119		S946	1-553-766-00	MT SWITCH (KEY BOARD SWITCH)					
D942	8-719-911-19	DIODE 1SS119		S947	1-553-766-00	MT SWITCH (KEY BOARD SWITCH)					
D943	8-719-911-19	DIODE 1SS119		S948	1-553-766-00	MT SWITCH (KEY BOARD SWITCH)					
D944	8-719-911-19	DIODE 1SS119		S949	1-553-766-00	MT SWITCH (KEY BOARD SWITCH)					

N

<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
	*9-990-898-01	N BOARD (KEY BOARD UNIT B) *****	
		IC	
IC935	8-741-138-70	IC BX1387 (DETECTOR)	
		*****	
		MISCELLANEOUS *****	
T604	△.1-237-614-11	RESISTOR ASSY, HIGH-VOLTAGE	
	△.1-426-315-11	COIL, DEMAGNETIZATION	
	△.1-439-372-32	TRANSFORMER ASSY, FLYBACK	
	△.1-451-295-11	DEFLECTION YOKE (SY-153E)	
	1-452-032-00	MAGNET, DISK; 10MM Ø	
	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM Ø	
	1-452-277-00	MAGNET, BMC	
	1-464-803-11	KEY BOARD UNIT (A)	
	1-464-804-11	KEY BOARD UNIT (B)	
	△.1-534-820-13	POWER CORD (AEP,AUS ONLY)	
	△.1-559-409-11	CORD,POWER (WG ONLY)	
S901	△.1-554-965-12	SWITCH, PUSH (AC POWER)(1 KEY)	
V901	△.8-736-955-05	PICTURE TUBE (A51JKQ10X)	
		*****	

ACCESSORIES AND PACKING MATERIALS  
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<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
A-1470-789-A	COMMANDER ASSY (RM-668)	
*4-377-015-01	BAG, PROTECTION	
*4-382-067-01	CUSHION (UPPER) (ASSY)	
*4-382-068-01	CUSHION (LOWER) (ASSY)	
*4-383-143-01	INDIVIDUAL CARTON	
4-482-400-11	MANUAL, INSTRUCTION	

The components identified by shading and mark △ are critical for safety. Replace only with part number specified.

**PVM-2130QM**  
**RM-668**

**Sony Corporation**

**TV Group**

**— 90 —**

**9-963-818-01**

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